Solutions Manual

Fundamentals of Corporate Finance, 1st edition Ross, Westerfield, Jordan and Bley

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CHAPTER 1 INTRODUCTION TO CORPORATE FINANCE

Answers to Concepts Review and Critical Thinking Questions

- 1. Capital budgeting (deciding whether to expand a manufacturing plant), capital structure (deciding whether to issue new equity and use the proceeds to retire outstanding debt), and working capital management (modifying the firm's credit collection policy with its customers).
- 2. Disadvantages: unlimited liability, limited life, difficulty in transferring ownership, hard to raise capital funds. Some advantages: simpler, less regulation, the owners are also the managers, sometimes personal tax rates are better than corporate tax rates.
- 3. The primary disadvantage of the corporate form is the double taxation to shareholders of distributed earnings and dividends. Some advantages include: limited liability, ease of transferability, ability to raise capital, and unlimited life.
- 4. In response to Sarbanes-Oxley, small firms have elected to go dark because of the costs of compliance. The costs to comply with Sarbox can be several million dollars, which can be a large percentage of a small firms profits. A major cost of going dark is less access to capital. Since the firm is no longer publicly traded, it can no longer raise money in the public market. Although the company will still have access to bank loans and the private equity market, the costs associated with raising funds in these markets are usually higher than the costs of raising funds in the public market.
- 5. The treasurer's office and the controller's office are the two primary organizational groups that report directly to the chief financial officer. The controller's office handles cost and financial accounting, tax management, and management information systems, while the treasurer's office is responsible for cash and credit management, capital budgeting, and financial planning. Therefore, the study of corporate finance is concentrated within the treasury group's functions.
- **6.** To maximize the current market value (share price) of the equity of the firm (whether it's publicly-traded or not).
- 7. In the corporate form of ownership, the shareholders are the owners of the firm. The shareholders elect the directors of the corporation, who in turn appoint the firm's management. This separation of ownership from control in the corporate form of organization is what causes agency problems to exist. Management may act in its own or someone else's best interests, rather than those of the shareholders. If such events occur, they may contradict the goal of maximizing the share price of the equity of the firm.
- **8.** A primary market transaction.

- 9. In auction markets like the NYSE, brokers and agents meet at a physical location (the exchange) to match buyers and sellers of assets. Dealer markets like NASDAQ consist of dealers operating at dispersed locales who buy and sell assets themselves, communicating with other dealers either electronically or literally over-the-counter.
- 10. Such organizations frequently pursue social or political missions, so many different goals are conceivable. One goal that is often cited is revenue minimization; i.e., provide whatever goods and services are offered at the lowest possible cost to society. A better approach might be to observe that even a not-for-profit business has equity. Thus, one answer is that the appropriate goal is to maximize the value of the equity.
- 11. Presumably, the current stock value reflects the risk, timing, and magnitude of all future cash flows, both short-term *and* long-term. If this is correct, then the statement is false.
- 12. An argument can be made either way. At the one extreme, we could argue that in a market economy, all of these things are priced. There is thus an optimal level of, for example, ethical and/or illegal behavior, and the framework of stock valuation explicitly includes these. At the other extreme, we could argue that these are non-economic phenomena and are best handled through the political process. A classic (and highly relevant) thought question that illustrates this debate goes something like this: "A firm has estimated that the cost of improving the safety of one of its products is \$30 million. However, the firm believes that improving the safety of the product will only save \$20 million in product liability claims. What should the firm do?"
- **13.** The goal will be the same, but the best course of action toward that goal may be different because of differing social, political, and economic institutions.
- 14. The goal of management should be to maximize the share price for the current shareholders. If management believes that it can improve the profitability of the firm so that the share price will exceed \$35, then they should fight the offer from the outside company. If management believes that this bidder or other unidentified bidders will actually pay more than \$35 per share to acquire the company, then they should still fight the offer. However, if the current management cannot increase the value of the firm beyond the bid price, and no other higher bids come in, then management is not acting in the interests of the shareholders by fighting the offer. Since current managers often lose their jobs when the corporation is acquired, poorly monitored managers have an incentive to fight corporate takeovers in situations such as this.
- 15. We would expect agency problems to be less severe in countries with a relatively small percentage of individual ownership. Fewer individual owners should reduce the number of diverse opinions concerning corporate goals. The high percentage of institutional ownership might lead to a higher degree of agreement between owners and managers on decisions concerning risky projects. In addition, institutions may be better able to implement effective monitoring mechanisms on managers than can individual owners, based on the institutions' deeper resources and experiences with their own management. The increase in institutional ownership of stock in the United States and the growing activism of these large shareholder groups may lead to a reduction in agency problems for U.S. corporations and a more efficient market for corporate control.

16. How much is too much? Who is worth more, Ray Irani or Tiger Woods? The simplest answer is that there is a market for executives just as there is for all types of labor. Executive compensation is the price that clears the market. The same is true for athletes and performers. Having said that, one aspect of executive compensation deserves comment. A primary reason executive compensation has grown so dramatically is that companies have increasingly moved to stock-based compensation. Such movement is obviously consistent with the attempt to better align stockholder and management interests. In recent years, stock prices have soared, so management has cleaned up. It is sometimes argued that much of this reward is simply due to rising stock prices in general, not managerial performance. Perhaps in the future, executive compensation will be designed to reward only differential performance, i.e., stock price increases in excess of general market increases.

CHAPTER 2 FINANCIAL STATEMENTS, TAXES AND CASH FLOW

Answers to Concepts Review and Critical Thinking Questions

- 1. Liquidity measures how quickly and easily an asset can be converted to cash without significant loss in value. It's desirable for firms to have high liquidity so that they have a large factor of safety in meeting short-term creditor demands. However, since liquidity also has an opportunity cost associated with it—namely that higher returns can generally be found by investing the cash into productive assets—low liquidity levels are also desirable to the firm. It's up to the firm's financial management staff to find a reasonable compromise between these opposing needs.
- 2. The recognition and matching principles in financial accounting call for revenues, and the costs associated with producing those revenues, to be "booked" when the revenue process is essentially complete, not necessarily when the cash is collected or bills are paid. Note that this way is not necessarily correct; it's the way accountants have chosen to do it.
- 3. Historical costs can be objectively and precisely measured whereas market values can be difficult to estimate, and different analysts would come up with different numbers. Thus, there is a tradeoff between relevance (market values) and objectivity (book values).
- 4. Depreciation is a non-cash deduction that reflects adjustments made in asset book values in accordance with the matching principle in financial accounting. Interest expense is a cash outlay, but it's a financing cost, not an operating cost.
- 5. Market values can never be negative. Imagine a share of stock selling for –\$20. This would mean that if you placed an order for 100 shares, you would get the stock along with a check for \$2,000. How many shares do you want to buy? More generally, because of corporate and individual bankruptcy laws, net worth for a person or a corporation cannot be negative, implying that liabilities cannot exceed assets in market value.
- **6.** For a successful company that is rapidly expanding, for example, capital outlays will be large, possibly leading to negative cash flow from assets. In general, what matters is whether the money is spent wisely, not whether cash flow from assets is positive or negative.
- 7. It's probably not a good sign for an established company, but it would be fairly ordinary for a start-up, so it depends.
- **8.** For example, if a company were to become more efficient in inventory management, the amount of inventory needed would decline. The same might be true if it becomes better at collecting its receivables. In general, anything that leads to a decline in ending NWC relative to beginning would have this effect. Negative net capital spending would mean more long-lived assets were liquidated than purchased.

- **9.** If a company raises more money from selling stock than it pays in dividends in a particular period, its cash flow to stockholders will be negative. If a company borrows more than it pays in interest, its cash flow to creditors will be negative.
- **10.** The adjustments discussed were purely accounting changes; they had no cash flow or market value consequences unless the new accounting information caused stockholders to revalue the derivatives.
- 11. Enterprise value is the theoretical takeover price. In the event of a takeover, an acquirer would have to take on the company's debt, but would pocket its cash. Enterprise value differs significantly from simple market capitalization in several ways, and it may be a more accurate representation of a firm's value. In a takeover, the value of a firm's debt would need to be paid by the buyer when taking over a company. This enterprise value provides a much more accurate takeover valuation because it includes debt in its value calculation.
- 12. In general, it appears that investors prefer companies that have a steady earnings stream. If true, this encourages companies to manage earnings. Under GAAP, there are numerous choices for the way a company reports its financial statements. Although not the reason for the choices under GAAP, one outcome is the ability of a company to manage earnings, which is not an ethical decision. Even though earnings and cash flow are often related, earnings management should have little effect on cash flow (except for tax implications). If the market is "fooled" and prefers steady earnings, shareholder wealth can be increased, at least temporarily. However, given the questionable ethics of this practice, the company (and shareholders) will lose value if the practice is discovered.

Solutions to Questions and Problems

NOTE: All end of chapter problems were solved using a spreadsheet. Many problems require multiple steps. Due to space and readability constraints, when these intermediate steps are included in this solutions manual, rounding may appear to have occurred. However, the final answer for each problem is found without rounding during any step in the problem.

Basic

1. To find owner's equity, we must construct a balance sheet as follows:

Balance Sheet				
CA	\$5,100	CL	\$4,300	
NFA	23,800	LTD	7,400	
		OE	??	
TA	<u>\$28,900</u>	TL & OE	\$28,900	

We know that total liabilities and owner's equity (TL & OE) must equal total assets of \$28,900. We also know that TL & OE is equal to current liabilities plus long-term debt plus owner's equity, so owner's equity is:

$$OE = $28,900 - 7,400 - 4,300 = $17,200$$

$$NWC = CA - CL = $5,100 - 4,300 = $800$$

2. The income statement for the company is:

Sales	\$586,000
Costs	247,000
Depreciation	43,000
EBIT	\$296,000
Interest	32,000
EBT	\$264,000
Taxes(35%)	92,400
Net income	<u>\$171,600</u>

3. One equation for net income is:

Net income = Dividends + Addition to retained earnings

Rearranging, we get:

Addition to retained earnings = Net income – Dividends = \$171,600 – 73,000 = \$98,600

4. EPS = Net income / Shares = \$171,600 / 85,000 = \$2.02 per share

DPS = Dividends / Shares = \$73,000 / 85,000 = \$0.86 per share

5. To find the book value of current assets, we use: NWC = CA - CL. Rearranging to solve for current assets, we get:

$$CA = NWC + CL = $380,000 + 1,100,000 = $1,480,000$$

The market value of current assets and fixed assets is given, so:

Book value CA	= \$1,480,000	Market value CA	= \$1,600,000
Book value NFA	= <u>\$3,700,000</u>	Market value NFA	= \$4,900,000
Book value assets	= \$5,180,000	Market value assets	= \$6,500,000

- 6. Taxes = 0.15(\$50K) + 0.25(\$25K) + 0.34(\$25K) + 0.39(\$236K 100K) = \$75,290
- 7. The average tax rate is the total tax paid divided by net income, so:

Average tax rate = \$75,290 / \$236,000 = 31.90%

The marginal tax rate is the tax rate on the next 1 of earnings, so the marginal tax rate = 39%.

8. To calculate OCF, we first need the income statement:

Income Statement	
Sales	\$27,500
Costs	13,280
Depreciation	2,300
EBIT	\$11,920
Interest	1,105
Taxable income	\$10,815
Taxes (35%)	_3,785
Net income	<u>\$ 7,030</u>

OCF = EBIT + Depreciation - Taxes = \$11,920 + 2,300 - 3,785 = \$10,435

- 9. Net capital spending = NFA_{end} NFA_{beg} + Depreciation Net capital spending = \$4,200,000 3,400,000 + 385,000 Net capital spending = \$1,185,000
- 10. Change in NWC = NWC_{end} NWC_{beg}
 Change in NWC = $(CA_{end} CL_{end}) (CA_{beg} CL_{beg})$ Change in NWC = (\$2,250 1,710) (\$2,100 1,380) Change in NWC = \$540 720 = -\$180
- 11. Cash flow to creditors = Interest paid Net new borrowing Cash flow to creditors = Interest paid (LTD_{end} LTD_{beg}) Cash flow to creditors = \$170,000 (\$2,900,000 2,600,000) Cash flow to creditors = -\$130,000
- 12. Cash flow to stockholders = Dividends paid Net new equity Cash flow to stockholders = Dividends paid $[(Common_{end} + APIS_{end}) (Common_{beg} + APIS_{beg})]$ Cash flow to stockholders = \$490,000 [(\$815,000 + 5,500,000) (\$740,000 + 5,200,000)] Cash flow to stockholders = \$115,000

Note, APIS is the additional paid-in surplus.

Cash flow from assets = Cash flow to creditors + Cash flow to stockholders = -\$130,000 + 115,000 = -\$15,000

Cash flow from assets = -\$15,000 = OCF - Change in NWC - Net capital spending= <math>-\$15,000 = OCF - (-\$85,000) - 940,000

Operating cash flow = -\$15,000 - 85,000 + 940,000

Operating cash flow = \$840,000

Intermediate

14. To find the OCF, we first calculate net income.

<u>Income Statement</u>		
Sales	\$196,000	
Costs	104,000	
Other expenses	6,800	
Depreciation	9,100	
EBIT	\$76,100	
Interest	14,800	
Taxable income	\$61,300	
Taxes	21,455	
Net income	\$39,845	
Dividends	\$10,400	
Additions to RE	\$29,445	

- a. OCF = EBIT + Depreciation Taxes = \$76,100 + 9,100 21,455 = \$63,745
- b. CFC = Interest Net new LTD = \$14,800 (-7,300) = \$22,100

Note that the net new long-term debt is negative because the company repaid part of its long-term debt.

- c. CFS = Dividends Net new equity = \$10,400 5,700 = \$4,700
- d. We know that CFA = CFC + CFS, so:

$$CFA = \$22,100 + 4,700 = \$26,800$$

CFA is also equal to OCF – Net capital spending – Change in NWC. We already know OCF. Net capital spending is equal to:

Net capital spending = Increase in NFA + Depreciation = \$27,000 + 9,100 = \$36,100

Now we can use:

Solving for the change in NWC gives \$845, meaning the company increased its NWC by \$845.

15. The solution to this question works the income statement backwards. Starting at the bottom:

Net income = Dividends + Addition to ret. earnings = \$1,500 + 5,100 = \$6,600

Now, looking at the income statement:

 $EBT - EBT \times Tax rate = Net income$

Recognize that EBT × Tax rate is simply the calculation for taxes. Solving this for EBT yields:

$$EBT = NI / (1 - tax rate) = \$6,600 / (1 - 0.35) = \$10,154$$

Now you can calculate:

$$EBIT = EBT + Interest = $10,154 + 4,500 = $14,654$$

The last step is to use:

EBIT = Sales
$$-$$
 Costs $-$ Depreciation
 $$14,654 = $41,000 - 19,500 -$ Depreciation

Solving for depreciation, we find that depreciation = \$6,846

16. The balance sheet for the company looks like this:

Balance Sheet				
Cash	\$195,000	Accounts payable	\$405,000	
Accounts receivable	137,000	Notes payable	160,000	
Inventory	264,000	Current liabilities	\$565,000	
Current assets	\$596,000	Long-term debt	1,195,300	
		Total liabilities	\$1,760,300	
Tangible net fixed assets	2,800,000			
Intangible net fixed assets	<u>780,000</u>	Common stock	??	
		Accumulated ret. earnings	1,934,000	
Total assets	<u>\$4,176,000</u>	Total liab. & owners' equity	<u>\$4,176,000</u>	

Total liabilities and owners' equity is:

TL & OE = CL + LTD + Common stock + Retained earnings

Solving for this equation for equity gives us:

Common stock =
$$\$4,176,000 - 1,934,000 - 1,760,300 = \$481,700$$

17. The market value of shareholders' equity cannot be negative. A negative market value in this case would imply that the company would pay you to own the stock. The market value of shareholders' equity can be stated as: Shareholders' equity = Max [(TA – TL), 0]. So, if TA is \$8,400, equity is equal to \$1,100, and if TA is \$6,700, equity is equal to \$0. We should note here that the book value of shareholders' equity can be negative.

b. Each firm has a marginal tax rate of 34% on the next \$10,000 of taxable income, despite their different average tax rates, so both firms will pay an additional \$3,400 in taxes.

19.	Income Statement		
	Sales	\$730,000	
	COGS	580,000	
	A&S expenses	105,000	
	Depreciation	135,000	
	EBIT	-\$90,000	
	Interest	75,000	
	Taxable income	-\$165,000	
	Taxes (35%)	0	
a.	Net income	<u>_\$165,000</u>	

- b. OCF = EBIT + Depreciation Taxes = -\$90,000 + 135,000 0 = \$45,000
- c. Net income was negative because of the tax deductibility of depreciation and interest expense. However, the actual cash flow from operations was positive because depreciation is a non-cash expense and interest is a financing expense, not an operating expense.
- 20. A firm can still pay out dividends if net income is negative; it just has to be sure there is sufficient cash flow to make the dividend payments.

Change in NWC = Net capital spending = Net new equity = 0. (Given)

Cash flow from assets = OCF – Change in NWC – Net capital spending

Cash flow from assets = \$45,000 - 0 - 0 = \$45,000

Cash flow to stockholders = Dividends – Net new equity = \$25,000 - 0 = \$25,000

Cash flow to creditors = Cash flow from assets – Cash flow to stockholders

Cash flow to creditors = \$45,000 - 25,000 = \$20,000

Cash flow to creditors = Interest – Net new LTD

Sales

EBIT

Net new LTD = Interest – Cash flow to creditors = \$75,000 - 20,000 = \$55,000

4,050

21. a.

\$22,800 Cost of goods sold 16,050 Depreciation \$ 2,700

Income Statement

Interest 1,830 Taxable income \$ 870 Taxes (34%) 296 Net income 574

b. OCF = EBIT + Depreciation - Taxes

= \$2,700 + 4,050 - 296 = \$6,454

c. Change in NWC =
$$NWC_{end} - NWC_{beg}$$

= $(CA_{end} - CL_{end}) - (CA_{beg} - CL_{beg})$
= $(\$5,930 - 3,150) - (\$4,800 - 2,700)$
= $\$2,780 - 2,100 = \680

Net capital spending = NFA_{end} - NFA_{beg} + Depreciation
=
$$$16,800 - 13,650 + 4,050 = $7,200$$

CFA = OCF - Change in NWC - Net capital spending
=
$$$6,454 - 680 - 7,200 = $1,426$$

The cash flow from assets can be positive or negative, since it represents whether the firm raised funds or distributed funds on a net basis. In this problem, even though net income and OCF are positive, the firm invested heavily in both fixed assets and net working capital; it had to raise a net \$1,426 in funds from its stockholders and creditors to make these investments.

d. Cash flow to creditors = Interest – Net new LTD =
$$\$1,830 - 0 = \$1,830$$

Cash flow to stockholders = Cash flow from assets – Cash flow to creditors = $-\$1,426 - 1,830 = -\$3,256$

We can also calculate the cash flow to stockholders as:

Cash flow to stockholders = Dividends – Net new equity

Solving for net new equity, we get:

Net new equity
$$= \$1,300 - (-3,256) = \$4,556$$

The firm had positive earnings in an accounting sense (NI > 0) and had positive cash flow from operations. The firm invested \$680 in new net working capital and \$7,200 in new fixed assets. The firm had to raise \$1,426 from its stakeholders to support this new investment. It accomplished this by raising \$4,556 in the form of new equity. After paying out \$1,300 of this in the form of dividends to shareholders and \$1,830 in the form of interest to creditors, \$1,426 was left to meet the firm's cash flow needs for investment.

Total assets 2009 =
$$$707 + 3,240 = $3,947$$

Total liabilities 2009 = $$293 + 1,512 = $1,805$
Owners' equity 2009 = $$3,947 - 1,805 = $2,142$

c. We can calculate net capital spending as:

Net capital spending = Net fixed assets
$$2009$$
 – Net fixed assets 2008 + Depreciation Net capital spending = $$3,240 - 2,691 + 738 = $1,287$

So, the company had a net capital spending cash flow of \$1,287. We also know that net capital spending is:

$$$1,287$$
 = $$1,350$ – Fixed assets sold
Fixed assets sold = $$1,350 - 1,287 = 63

To calculate the cash flow from assets, we must first calculate the operating cash flow. The income statement is:

Income Statement

Sales	\$ 8,280.00
Costs	3,861.00
Depreciation expense	738 .00
EBIT	\$3,681.00
Interest expense	211 .00
EBT	\$3,470.00
Taxes (35%)	1,215.50
Net income	\$2,256.50

So, the operating cash flow is:

$$OCF = EBIT + Depreciation - Taxes = \$3,681 + 738 - 1,214.50 = \$3,204.50$$

And the cash flow from assets is:

Cash flow from assets = OCF - Change in NWC - Net capital spending.
=
$$\$3,204.50 - 22 - 1,287 = \$1,895.50$$

Debt retired = \$270 - 90 = \$180

Challenge

- 24. a. The tax bubble causes average tax rates to catch up to marginal tax rates, thus eliminating the tax advantage of low marginal rates for high income corporations.
 - b. Taxes = 0.15(\$50,000) + 0.25(\$25,000) + 0.34(\$25,000) + 0.39(\$235,000) = \$113,900

Average tax rate = \$113,900 / \$335,000 = 34%

The marginal tax rate on the next dollar of income is 34 percent.

For corporate taxable income levels of \$335,000 to \$10 million, average tax rates are equal to marginal tax rates.

Taxes =
$$0.34(\$10,000,000) + 0.35(\$5,000,000) + 0.38(\$3,333,333) = \$6,416,667$$

Average tax rate = \$6,416,667 / \$18,333,334 = 35%

The marginal tax rate on the next dollar of income is 35 percent. For corporate taxable income levels over \$18,333,334, average tax rates are again equal to marginal tax rates.

- c. Taxes = 0.34(\$200,000) = \$68,000 \$68,000 = 0.15(\$50,000) + 0.25(\$25,000) + 0.34(\$25,000) + X(\$100,000); X(\$100,000) = \$68,000 - 22,250 X = \$45,750 / \$100,000X = 45.75%
- 25.

Balance sheet as of Dec. 31, 2008				
Cash	\$3,792	Accounts payable	\$3,984	
Accounts receivable	5,021	Notes payable	732	
Inventory	8,927	Current liabilities	\$4,716	
Current assets	\$17,740			
		Long-term debt	\$12,700	
Net fixed assets	\$31,805	Owners' equity	32,129	
Total assets	\$49,545	Total liab. & equity	\$49,545	
Balance sheet as of Dec. 31, 2009				
Cash	\$4,041	Accounts payable	\$4,025	
Accounts receivable	5,892	Notes payable	717	
Inventory	9,555	Current liabilities	\$4,742	
Current assets	\$19,488			
		Long-term debt	\$15,435	
Net fixed assets	\$33,921	Owners' equity	33,232	
Total assets	\$53,409	Total liab. & equity	\$53,409	

2008 Income Statement 2009 Income State		atement	
Sales	\$7,233.00	Sales	\$8,085.00
COGS	2,487.00	COGS	2,942.00
Other expenses	591.00	Other expenses	515.00
Depreciation	1,038.00	Depreciation	1,085.00
EBIT	\$3,117.00	EBIT	\$3,543.00
Interest	485.00	Interest	579.00
EBT	\$2,632.00	EBT	\$2,964.00
Taxes (34%)	894.88	Taxes (34%)	1,007.76
Net income	\$1,737.12	Net income	\$1,956.24
Dividends	\$882.00	Dividends	\$1,011.00
Additions to RE	855.12	Additions to RE	945.24

26. OCF = EBIT + Depreciation – Taxes =
$$\$3,543 + 1,085 - 1,007.76 = \$3,620.24$$

Change in NWC = NWC_{end} - NWC_{beg} =
$$(CA - CL)_{end} - (CA - CL)_{beg}$$

= $(\$19,488 - 4,742) - (\$17,740 - 4,716)$
= $\$1,722$

Net capital spending =
$$NFA_{end} - NFA_{beg} + Depreciation$$

= $$33,921 - 31,805 + 1,085 = $3,201$

Cash flow from assets = OCF – Change in NWC – Net capital spending =
$$$3,620.24 - 1,722 - 3,201 = -$1,302.76$$

Cash flow to creditors = Interest - Net new LTD

Net new LTD = $LTD_{end} - LTD_{beg}$

Cash flow to creditors = \$579 - (\$15,435 - 12,700) = -\$2,156

Net new equity = Common $stock_{end}$ - Common $stock_{beg}$

Common stock + Retained earnings = Total owners' equity

Net new equity =
$$(OE - RE)_{end} - (OE - RE)_{beg}$$

= $OE_{end} - OE_{beg} + RE_{beg} - RE_{end}$

 $RE_{end} = RE_{beg} + Additions to RE08$

CFS = Dividends – Net new equity
CFS =
$$\$1,011 - 157.76 = \$853.24$$

As a check, cash flow from assets is -\$1,302.76.

CFA =
$$-\$2,156 + 853.24 = -\$1,302.76$$