

Halliday, Resnick, and Walker, *Fundamentals of Physics 10e* Question Answers
Volume 1

Chapter 2 Answers

1	(a) negative; (b) positive; (c) yes; (d) positive; (e) constant
2	E
3	(a) all tie; (b) 4, tie of 1 and 2, then 3
4	(a) negative; (b) positive; (c) zero; (d) negative; (e) twice
5	(a) positive direction; (b) negative direction; (c) 3 and 5; (d) 2 and 6 tie, then 3 and 5 tie, then 1 and 4 tie (zero)
6	(a) 2, 3; (b) 1, 3; (c) 4
7	(a) D ; (b) E
8	a and c
9	(a) 3, 2, 1; (b) 1, 2, 3; (c) all tie; (d) 1, 2, 3
10	(a) 9.8 m/s^2 ; (b) downward; (c) upward; (d) 2 m/s ; (e) decrease
11	1 and 2 tie, then 3

Chapter 3 Answers

1	yes, when the vectors are in same direction
2	(a) -, +; (b) -, -; (c) +, +
3	Either the sequence \vec{d}_2, \vec{d}_1 or the sequence $\vec{d}_2, \vec{d}_2, \vec{d}_3$
4	no, but \vec{a} and $-\vec{B}$ are commutative: $\vec{a} + (-\vec{B}) = (-\vec{B}) + \vec{a}$
5	all but (e)
6	(a) \vec{a} and \vec{B} are parallel; (b) $\vec{B} = 0$; (c) \vec{a} and \vec{B} are perpendicular