

1.1 - Precalculus Review I

$$-\frac{7}{8} < -\frac{15}{16}$$

1.

- a. True
- b. False

ANSWER: False
POINTS: 1
QUESTION TYPE: True / False
HAS VARIABLES: True
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2. Suppose a and b are real numbers other than zero and that $a > b$. State whether the inequality is true or false.

$$\frac{1}{a} > \frac{1}{b}$$

- a. True
- b. False

ANSWER: False
POINTS: 1
QUESTION TYPE: True / False
HAS VARIABLES: True
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3. Determine whether the statement below is true for all real numbers d .

$$|d+1| = |d|+1$$

- a. True
- b. False

ANSWER: False
POINTS: 1
QUESTION TYPE: True / False
HAS VARIABLES: True
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4. If $a < b$, then $a - c > b - c$.

- a. True
- b. False

ANSWER: False
POINTS: 1
QUESTION TYPE: True / False
HAS VARIABLES: True
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5. A manufacturer of a certain commodity has estimated that her profit in thousands of dollars is given by the expression

$$-2x^2 + 14x - 6$$

where x (in thousands) is the number of units produced.

What production range will enable the manufacturer to realize a profit of at least \$6,000 on the commodity?

- a. Between 1,000 and 9,000 units.
- b. Between 5,000 and 10,000 units.
- c. Between 5,000 and 6,000 units.
- d. Between 1,000 and 6,000 units.
- e. Between 1,000 and 10,000 units.

ANSWER:

d

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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6. Rationalize the numerator of the expression.

$$\sqrt{\frac{3y}{x}}$$

- a. $\frac{3y}{\sqrt{3xy^2}}$
- b. $\frac{3}{\sqrt{xy^2}}$
- c. $\frac{3y}{\sqrt{3xy}}$
- d. $\frac{3y}{\sqrt{xy}}$
- e. $\frac{3y}{\sqrt{xy^2}}$

ANSWER:

c

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

False

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$$10^{\frac{1}{2}} \approx 3.162$$

7. Use the fact that _____ to evaluate the expression without using a calculator.

$$10^{4.5}$$

- a. 316,200
- b. 316.2
- c. 31.62
- d. 31,620
- e. 3,162,000

ANSWER:

d

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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8. Simplify the expression. (Assume that r , s , and t are positive.)

$$\sqrt[3]{8r^9} \sqrt{s^2t^8}$$

- a. $8r^3s^1t^4$
- b. $2r^6s^4t^4$
- c. $8r^3s^4t^4$
- d. $2r^3s^1t^4$
- e. $2r^3s^4t^6$

ANSWER:

d

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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9. Evaluate the expression.

$$\left[\left(-\frac{1}{2} \right)^3 \right]^{-1}$$

- a. 8
- b. -9

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- c. -8
- d. -16
- e. 9

ANSWER: c
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: True
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10. Determine whether the statement is true or false.

$$\frac{9^{\frac{5}{2}}}{3^6} = \frac{1}{3}$$

- a. True
- b. False

ANSWER: a
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: True
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11. Determine whether the statement is true or false.

$$-\frac{7}{8} > -\frac{15}{16}$$

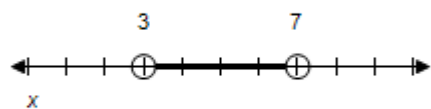
- a. False
- b. True

ANSWER: b
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: True
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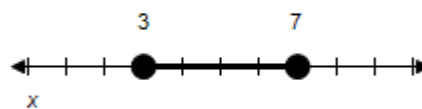
12. Show the interval $[3, 7]$ on a number line.

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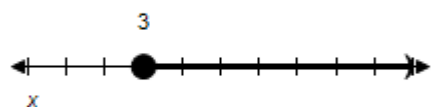
a.



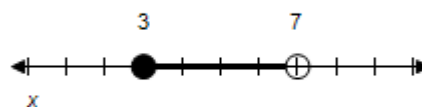
b.



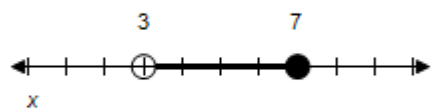
c.



d.



e.



ANSWER:

POINTS:

QUESTION TYPE:

HAS VARIABLES:

DATE CREATED:

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b

1

Multiple Choice

True

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13. Evaluate the expression.

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$$|2\sqrt{2}-1|+|6-2\sqrt{2}|$$

- a. $4\sqrt{2}$
- b. -5
- c. 5
- d. $2\sqrt{2}$
- e. $-4\sqrt{2}$

ANSWER:

c

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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14. Suppose a and b are real numbers other than zero and that $a > b$. State whether the inequality is true or false.

$$\frac{1}{a} > \frac{1}{b}$$

- a. False
- b. True

ANSWER:

a

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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15. Evaluate the expression.

$$\frac{16^{\frac{7}{8}} 16^{\frac{1}{4}}}{16^{\frac{1}{8}}}$$

- a. 16
- b. 4
- c. 2
- d. $\frac{1}{2}$

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e. $\frac{1}{16}$

ANSWER:

a

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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16. Rewrite the expression using positive exponents only.

$$\sqrt{x^{-5}} \cdot \sqrt{16x^{-5}}$$

- a. $\frac{16}{x^5}$
- b. $\frac{4}{x^5}$
- c. $\frac{4}{x^{10}}$
- d. $16x^{10}$
- e. $4x^5$

ANSWER:

b

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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17. Simplify the expression. (Assume x and y are positive.)

$$\sqrt{4x^{-8}y^6}$$

- a. $4\frac{y^3}{x^4}$
- b. $4x^4y^3$
- c. $2\frac{x^4}{y^3}$
- d. $2x^4y^3$

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e. $2\frac{y^3}{x^4}$

ANSWER: e
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: True
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18. Determine whether the statement below is true for positive real numbers c .

$$|c+1| = |c|+1$$

- a. False
b. True

ANSWER: b
POINTS: 1
QUESTION TYPE: Multiple Choice
HAS VARIABLES: True
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19. Rationalize the denominator of the expression.

$$\sqrt{\frac{11x}{y}}$$

- a. $\frac{\sqrt{11xy}}{x}$
b. $\frac{\sqrt{11(x+y)}}{y}$
c. $\frac{\sqrt{11(x-y)}}{y}$
d. $\frac{\sqrt{11xy}}{y}$
e. $11\frac{\sqrt{xy}}{y}$

ANSWER: d
POINTS: 1
QUESTION TYPE: Multiple Choice

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HAS VARIABLES:

True

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20. Rationalize the numerator of the expression.

$$\frac{\sqrt[7]{x^3z}}{6y}$$

- a. $\frac{7xz}{6y\sqrt[7]{x^4z^6}}$
- b. $\frac{xyz}{6\sqrt[7]{x^4yz^6}}$
- c. $\frac{xyz}{6\sqrt[7]{x^4z^6}}$
- d. $\frac{xz}{6y\sqrt[7]{x^4z^6}}$
- e. $\frac{xz}{6y\sqrt[7]{x^3z}}$

ANSWER:

d

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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21. Find the maximum profit P (in dollars) given that

$$12(P - 2,200) \leq 10(P + 2,700).$$

- a. \$40,050
- b. \$13,350
- c. \$27,000
- d. \$26,700
- e. \$27,150

ANSWER:

d

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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22. A salesman's monthly commission is 25% on all sales over \$14,000. If his goal is to make a commission of at least \$4,800/month, what minimum monthly sales figures must he attain?

- a. \$16,400
- b. \$33,200
- c. \$18,800
- d. \$23,600
- e. \$28,400

ANSWER:

b

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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23. Simplify the expression.

$$\frac{3x^3y^2}{2xy^4}$$

- a. $\frac{2x^2}{3y^2}$
- b. $\frac{3y^2}{2x^2}$
- c. $\frac{3x^2}{2y^2}$
- d. $\frac{3x^3}{2y^2}$
- e. $\frac{3x^2}{2y^3}$

ANSWER:

c

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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24. The diameter x (in inches) of a batch of ball bearings manufactured by PAR Manufacturing satisfies the inequality

$$|x - 0.75| \leq 0.05$$

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What is the smallest diameter a ball bearing in the batch can have?

- a. 0.78 inches
- b. 0.76 inches
- c. 0.8 inches
- d. 0.75 inches
- e. 0.7 inches

ANSWER:

e

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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25. Evaluate the expression.

$$\frac{|-17+13|}{|11-9|}$$

- a. 5
- b. 2
- c. 7
- d. 3
- e. 6

ANSWER:

b

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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26. Determine whether the statement is true or false.

If $a < b$, then $a - f < b - f$.

If

- a. True
- b. False

ANSWER:

a

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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27. Find the values of x that satisfy the inequalities.

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$$x - 6 \leq 1 \text{ and } x + 3 > 3$$

- a. $(0, 7]$
- b. $(-\infty, 7]$
- c. $[0, 7)$
- d. $(-\infty, 0) \cup [7, \infty)$
- e. $(-\infty, 0] \cup (7, \infty)$

ANSWER:

POINTS:

QUESTION TYPE:

HAS VARIABLES:

DATE CREATED:

DATE MODIFIED:

a

1

Multiple Choice

True

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28. Evaluate the expression.

$$\sqrt[5]{5^{20}}$$

- a. 5
- b. 3,125
- c. $\frac{1}{125}$
- d. $\frac{1}{625}$
- e. 625

ANSWER:

POINTS:

QUESTION TYPE:

HAS VARIABLES:

DATE CREATED:

DATE MODIFIED:

e

1

Multiple Choice

True

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29. Simplify the expression.

$$\frac{x^{\frac{8}{3}}}{x^{-2}}$$

- a. $x^{-\frac{14}{3}}$

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- b. $x^{-\frac{3}{14}}$
- c. $x^{\frac{3}{14}}$
- d. $x^{\frac{14}{3}}$
- e. x^3

ANSWER:

d

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

True

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$$3^{\frac{1}{2}} \approx 1.732$$

30. Use the fact that the _____ to evaluate the expression without using a calculator.

$$3^{\frac{5}{2}}$$

Round the answer to the nearest thousandth.

- a. 46.765
- b. 24.994
- c. 5.196
- d. 15.588
- e. 43.075

ANSWER:

d

POINTS:

1

QUESTION TYPE:

Multiple Choice

HAS VARIABLES:

False

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31. Evaluate the expression.

$$\left[\left(-\frac{1}{2} \right)^2 \right]^{-3}$$

ANSWER:

64

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POINTS:	1
QUESTION TYPE:	Numeric Response
HAS VARIABLES:	False
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$$10^{\frac{1}{2}} \approx 3.162$$

32. Use the fact that _____ to evaluate the expression without using a calculator.

$$10^{25}$$

ANSWER:	316.2
POINTS:	1
QUESTION TYPE:	Numeric Response
HAS VARIABLES:	True
DATE CREATED:	12/25/2015 9:33 AM
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33. Evaluate the expression.

$$|\sqrt{2}-1|+|9-\sqrt{2}|$$

ANSWER:	8
POINTS:	1
QUESTION TYPE:	Numeric Response
HAS VARIABLES:	True
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34. Evaluate the expression.

$$\frac{16^{-\frac{5}{8}} 16^{\frac{1}{2}}}{16^{-\frac{3}{8}}}$$

ANSWER:	2
POINTS:	1
QUESTION TYPE:	Numeric Response
HAS VARIABLES:	True
DATE CREATED:	12/25/2015 9:33 AM
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35. Find the maximum profit P (in dollars) given that

$$5(P-2,000) \leq 3(P+2,700).$$

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\$ _____

ANSWER: 9,050
POINTS: 1
QUESTION TYPE: Numeric Response
HAS VARIABLES: True
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36. A salesman's monthly commission is 20% on all sales over \$15,000. If his goal is to make a commission of at least \$4,800/month, what minimum monthly sales figures must he attain?

\$ _____

ANSWER: 39,000
POINTS: 1
QUESTION TYPE: Numeric Response
HAS VARIABLES: True
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37. The diameter x (in inches) of a batch of ball bearings manufactured by PAR Manufacturing satisfies the inequality

$$|x - 0.2| \leq 0.04$$

What is the smallest diameter a ball bearing in the batch can have? Give your answer to two decimal places, if necessary.

_____ inches

ANSWER: 0.16
POINTS: 1
QUESTION TYPE: Numeric Response
HAS VARIABLES: True
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38. Evaluate the expression.

$$\frac{|-17+7|}{|11-9|}$$

ANSWER: 5
POINTS: 1
QUESTION TYPE: Numeric Response
HAS VARIABLES: True
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$$\frac{1}{3^{\frac{1}{2}}} \approx 1.732$$

39. Use the fact that the $\frac{1}{3^{\frac{1}{2}}}$ to evaluate the expression without using a calculator.

Round the answer to the nearest thousandth, if necessary.

ANSWER: 15.588
 POINTS: 1
 QUESTION TYPE: Numeric Response
 HAS VARIABLES: True
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40. Simplify the expression. (Assume that r , s , and t are positive.)

$$\sqrt[3]{64r^6} \sqrt{s^8 t^4}$$

ANSWER: $4r^2 s^4 t^2$
 POINTS: 1
 QUESTION TYPE: Subjective Short Answer
 HAS VARIABLES: False
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41. Rationalize the numerator of the expression.

$$\sqrt[3]{\frac{2y}{x}}$$

ANSWER: $\frac{2y}{\sqrt[3]{4xy^2}}$
 POINTS: 1
 QUESTION TYPE: Subjective Short Answer
 HAS VARIABLES: False
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42. Rewrite the expression using positive exponents only.

$$\sqrt{x^{-7}} \cdot \sqrt{4x^{-1}}$$

ANSWER: $\frac{2}{x^4}$
 POINTS: 1

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QUESTION TYPE:	Subjective Short Answer
HAS VARIABLES:	True
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43. Simplify the expression. (Assume x and y are positive.)

$$\sqrt{4x^{-12}y^4}$$

ANSWER:

$$\frac{2y^2}{x^6}$$

POINTS:

1

QUESTION TYPE:	Subjective Short Answer
HAS VARIABLES:	True
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44. Rationalize the denominator of the expression.

$$\sqrt{\frac{3x}{y}}$$

ANSWER:

$$\frac{\sqrt{3xy}}{y}$$

POINTS:

1

QUESTION TYPE:	Subjective Short Answer
HAS VARIABLES:	True
DATE CREATED:	12/25/2015 9:33 AM
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45. Rationalize the numerator of the expression.

$$\frac{\sqrt[7]{x^2z^3}}{4y}$$

ANSWER:

$$\frac{xz}{4y\sqrt[7]{x^5z^4}}$$

POINTS:

1

QUESTION TYPE:	Subjective Short Answer
HAS VARIABLES:	True
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46. Simplify the expression.

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$$\frac{9x^6y^3}{4x^2y^6}$$

ANSWER:

$$\frac{9x^4}{4y^3}$$

POINTS:

1

QUESTION TYPE:

Subjective Short Answer

HAS VARIABLES:

True

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47. Evaluate the expression.

$$\sqrt[3]{2^{12}}$$

ANSWER:

$$2^4$$

POINTS:

1

QUESTION TYPE:

Subjective Short Answer

HAS VARIABLES:

True

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48. Simplify the expression.

$$\frac{x^{\frac{7}{3}}}{x^{-2}}$$

ANSWER:

$$x^{\frac{13}{3}}$$

POINTS:

1

QUESTION TYPE:

Subjective Short Answer

HAS VARIABLES:

True

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49. A manufacturer of a certain commodity has estimated that her profit in thousands of dollars is given by the expression

$$-4x^3 + 20x - 8$$

where x (in thousands) is the number of units produced.

What production range will enable the manufacturer to realize a profit of at least \$8,000 on the commodity?

Between _____ and _____ units.

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ANSWER:	1,000; 4,000
POINTS:	1
QUESTION TYPE:	Subjective Short Answer
HAS VARIABLES:	True
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50. Determine whether the statement is *true* or *false*.

$$\frac{\frac{1}{9^2}}{3^2} = \frac{1}{3}$$

ANSWER:	true
POINTS:	1
QUESTION TYPE:	Subjective Short Answer
HAS VARIABLES:	True
DATE CREATED:	12/25/2015 9:33 AM
DATE MODIFIED:	12/25/2015 9:33 AM

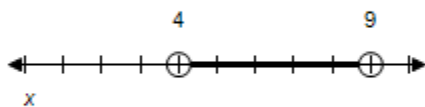
Match each interval with the corresponding number line.

Choose the correct letter for each question.

- a. $[4, 9]$
- b. $(4, 9)$
- c. $(-6, \infty)$
- d. $(-\infty, 6]$

QUESTION TYPE:	Matching
HAS VARIABLES:	True
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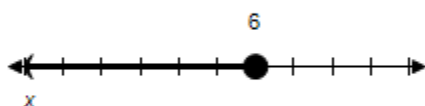
51.

ANSWER:

b

POINTS:

1



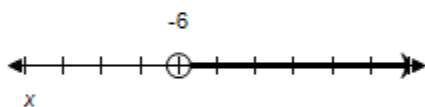
52.

ANSWER:

d

POINTS:

1



53.

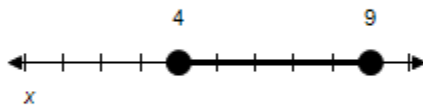
ANSWER:

c

POINTS:

1

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54.

ANSWER:

a

POINTS:

1

Match each pair of inequalities with the corresponding values of x .

Choose the correct letter for each question.

- a. $x - 5 \leq 6$ and $x + 9 > 3$
- b. $x - 5 \leq 6$ and $x + 9 \geq 3$
- c. $x - 5 \geq 6$ and $x + 9 \leq 3$
- d. $x - 5 > 6$ and $x + 9 \leq 3$

QUESTION TYPE:

Matching

HAS VARIABLES:

True

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55. $(-\infty, -6] \cup [11, \infty)$

ANSWER:

c

POINTS:

1

56. $(-\infty, -6] \cup (11, \infty)$

ANSWER:

d

POINTS:

1

57. $[-6, 11]$

ANSWER:

b

POINTS:

1

58. $(-6, 11]$

ANSWER:

a

POINTS:

1

1.1 - Precalculus Review I