

Online Exam 3_03

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Part 1 of 1 -

5.0 Points

Question 1 of 20

Solve:

$$9x + 8 = 2x + 8$$

- ☐ A. -1
- ☐ B. 0
- ☐ C. 1
- ☐ D. 2

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Question 2 of 20

Solve:

$$\frac{5}{y+4} + \frac{11}{y^2+y-12} = \frac{7}{y-3}$$

- ☐ A. 16
- ☐ B. -16
- ☐ C. 2
- ☐ D. -2

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Question 3 of 20

Find a number such that 54 more than one-half the number is twice the number.

- ☐ A. 36
- ☐ B. 27
- ☐ C. 15
- ☒ D. 32

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Question 4 of 20

The length of a rectangle is 2 cm more than twice its width. If the perimeter of the rectangle is 40 cm, find the length of the rectangle.

- ☐ A. 6 cm
- ☐ B. 9 cm
- ☐ C. 11 cm
- ☐ D. 14 cm

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Question 5 of 20

The sale price of an item after a 15% discount is \$102. What was the price before the discount?

- ☐ A. \$117
- ☐ B. \$125
- ☐ C. \$120
- ☐ D. \$110

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Question 6 of 20

How much pure antifreeze must be added to 12 gallons of 20% antifreeze to make a 40% antifreeze solution?

- ☐ A. 2 gallons
- ☐ B. 4 gallons
- ☐ C. 6 gallons
- ☐ D. 8 gallons

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Question 7 of 20

One computer printer can print a company's mailing labels in 40 minutes. A second printer would take 60 minutes to print the labels. How long would it take the two printers, operating together, to print the labels?

- ☐ A. 30 minutes
- ☐ B. 24 minutes
- ☐ C. 50 minutes
- ☐ D. 32 minutes

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5.0 Points

Question 8 of 20

Rewrite the interval in inequality notation.

$(-3, \infty)$

- ☐ A. $x > -3$
- ☐ B. $x < -3$

☐ C. $x \leq -3$

☐ D. $x \geq -3$

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Question 9 of 20

Choose the graph of the inequality on a real number line.

$$-4 \leq x < 1$$



☐ A.



☐ B.



☐ C.



☐ D.

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Question 10 of 20

Fill in the blanks with $>$ or $<$ to make the resulting statement true.

$$-4 \underline{\hspace{1cm}} -6 \text{ and } -4 - 5 \underline{\hspace{1cm}} -6 - 5$$

☐ A. $<, <$

☐ B. $>, >$

☐ C. $<, >$

☐ D. $>, <$

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Question 11 of 20

Write as a single interval, if possible. $(-2, 4] \cap [0, 5)$

☐ A. $(-2, 5)$

☐ B. $[0, 4]$

☐ C. $(-2, 4]$

☐ D. $[0, 5)$

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Question 12 of 20

A musician is planning to market a CD. The fixed costs are \$330 and the variable costs are \$5 per CD. The wholesale price of the CD will be \$8. For the artist to make a profit, revenues must be greater than costs. How many CDs, x , must be sold for the musician to make a profit?

☐ A. $x > 100$

☐ B. $x > 110$

☐ C. $x > 120$

☐ D. $x > 130$

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Question 13 of 20

Evaluate:

$$|-5 - (-3)|$$

☐ A. 3

☐ B. 5

☐ C. 1

☐ D. 2

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Question 14 of 20

Find the distance between -1 and 1 .

☐ A. 1

☐ B. 0

☐ C. 2

☐ D. 3

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Question 15 of 20

Solve:

$$|x - 4| = 2$$

☐ A. 6, -2

☐ B. 6, 2

☐ C. -6 , 2

☐ D. -6, -2

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Question 16 of 20

Solve. Write the solution in interval notation.

$$|x + 4| \leq 6$$

☐ A. $(-\infty, -10) \cup (2, \infty)$

☐ B. $(-\infty, -10] \cup [2, \infty)$

☐ C. $(-10, 2)$

☐ D. $[-10, 2]$

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Question 17 of 20

Write as an absolute value inequality.

x is more than 7 units from 3

☐ A. $|x - 3| > 7$

☐ B. $|x - 3| \geq 7$

☐ C. $|x + 3| > 7$

☐ D. $|x + 3| \geq 7$

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Question 18 of 20

Solve:

$$|2x - 7| = 3$$

☐ A. 5, 2

☐ B. 5, -2

☐ C. -5, 2

☐ D. -5, -2

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Question 19 of 20

Solve:

$$\sqrt{(2x + 9)^2} < 3$$

☐ A. $x < -3$

☐ B. $x < -6$ or $x > -3$

☐ C. $3 < x < 6$

☐ D. $x < 3$ or $x > 6$

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Question 20 of 20

Solve:

$$|x + 3| = 2x + 1$$

☐ A. 2

☐ B. $-4/3$

☐ C. 2, $-4/3$

☐ D. 2, $4/3$

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