

1st Trimester Review

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1) Label each number below as Real, Natural, Rational, Irrational, Integer, or Whole Number. Label all that apply.

A) 12 B) -3.544

C) $\frac{7}{8}$ D) 0

3) Find the multiplicative inverse of -4

4) $-3(4 - 7) - (-1) + 11$

5) Evaluate $2y = 3x^2 - 4x + 2$ for $x = -3$ **Simplify each expression.**

6) $3(-3b - 9) - 7(2 - 4b)$

7) $-v(1 - 4v) - v(6v + 7)$

Solve each equation.

8) $3n + 3(-7n - 7) = -93$

9) $109 = -3 - 8(x - 6)$

Simplify. Your answer should contain only positive exponents. (it looks scary, but isn't)

10) $(-2a^2b^4)^4 \cdot ab$

11) $(2x^{-3})^{-3} \cdot -2xy^{-2}$

12) $\left(\frac{q^3r^{-3} \cdot 2p^2q^3r^4}{p^{-4}q^{-2}r^3}\right)^{-3}$

Find the product and write your answer in scientific AND standard notation

13) $3.443 \times 10^3 \cdot -2.113 \times 10^{-2}$

Solve the formulas for the given variable

14) $A = \pi r^2$ for π

15) $V = \frac{1}{3}\pi r^2 \cdot h$ for h

Solve each inequality.

16) $-5(7 - 3n) \leq -140$

17) $-4(3x - 1) - 7x \leq -129$

18) $\frac{|x - 3|}{7} > 3$

19) $-6|4 + p| > -42$

20) $5 - \left| \frac{k}{3} \right| > 3$

Solve each compound inequality.

21) $3x > 30$ or $6x \leq 6$

22) $7r > 42$ or $-3r > -6$

Graph each equation.

23) $y = |2x + 1| + 2$

Sketch the graph of each line.

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Solve each system by graphing.

$$29) \begin{cases} y = \frac{1}{2}x - 4 \\ y = \frac{1}{2}x + 3 \end{cases}$$

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Use Cramer's Rule to solve each system.

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Use Cramer's Rule to solve each system.

$$36) \begin{cases} x - 3y = 7 \\ x + 3y = -9 \end{cases}$$

$$37) \begin{cases} -4x + 3y = 11 \\ -y = -10 \end{cases}$$

1st Trimester Review

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1) Label each number below as Real, Natural, Rational, Irrational, Integer, or Whole Number. Label all that apply.

A) 12 B) -3.544

C) $\frac{7}{8}$ D) 0

3) Find the multiplicative inverse of -4

4) $-3(4 - 7) - (-1) + 11$

5) Evaluate $2y = 3x^2 - 4x + 2$ for $x = -3$ **Simplify each expression.**

6) $3(-3b - 9) - 7(2 - 4b)$

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Solve each equation.

8) $3n + 3(-7n - 7) = -93$

9) $109 = -3 - 8(x - 6)$

Simplify. Your answer should contain only positive exponents. (it looks scary, but isn't)

10) $(-2a^2b^4)^4 \cdot ab$

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12) $\left(\frac{q^3r^{-3} \cdot 2p^2q^3r^4}{p^{-4}q^{-2}r^3}\right)^{-3}$

Find the product and write your answer in scientific AND standard notation

13) $3.443 \times 10^3 \cdot -2.113 \times 10^{-2}$

Solve the formulas for the given variable

14) $A = \pi r^2$ for π

15) $V = \frac{1}{3}\pi r^2 \cdot h$ for h

Solve each inequality.

16) $-5(7 - 3n) \leq -140$

17) $-4(3x - 1) - 7x \leq -129$

18) $\frac{|x - 3|}{7} > 3$

19) $-6|4 + p| > -42$

20) $5 - \left| \frac{k}{3} \right| > 3$

Solve each compound inequality.

21) $3x > 30$ or $6x \leq 6$

22) $7r > 42$ or $-3r > -6$

Graph each equation.

23) $y = |2x + 1| + 2$

Sketch the graph of each line.

24) $y = x + 5$

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26) $y \leq \frac{1}{5}x + 3$

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28) $y = 2x^2$

Solve each system by graphing.

$$29) \begin{aligned} y &= \frac{1}{2}x - 4 \\ y &= \frac{1}{2}x + 3 \end{aligned}$$

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