

Show your work on this paper to receive full credit. Remember to reduce fractions when possible.

Chapters 1 and 2

<p>1.) Translate: $\frac{x-4}{7} = 9$</p>	<p>2.) Give the opposite, reciprocal and absolute value of: -3 Opposite: Reciprocal: Absolute Value:</p>
<p>3.) Simplify: $-2^2 - 24 + 5 \cdot 2$</p>	<p>4.) Simplify: $5 - 3(-4 + 7) - 9$</p>
<p>5.) Simplify: $(4 - 2) \div (1 - 1)$</p>	<p>6.) Simplify: $49 - [(5 - 7) - 10] - 6$</p>
<p>7.) Simplify: $\frac{4(8-13) + 3(2-6)}{-5 + 1^3}$</p>	<p>8.) Factor 210 into a product of primes:</p>
<p>9.) Solve for y: $-4x + 5y = 10$</p>	<p>10.) Translate and simplify: <i>Four less than twice the sum of negative four and seven.</i></p>
<p>11.) Simplify: $6 - (x + 9) + 3x$</p> <p>13.) Evaluate when $x = 2$ and $y = -3$ $-x^2 - 5xy + 2y^2$</p>	<p>12.) Simplify: $-4(2y - 5) + 3(y + 4) - 2(-3y + 2)$</p> <p>14.) Solve: $4a - 5 = -21$</p>

<p>15.) Solve: $15 - 5x = -2x$</p>	<p>16.) Solve: $5 + \frac{1}{4}y = \frac{5}{6} - \frac{2}{3}y$</p>
<p>17.) Solve: $15 - 3(2x + 4) = -9$</p>	<p>18.) Solve: $4(r - 3) = -2(5r - 1)$</p>
<p>19.) Solve: $4.2 - .5x = 6x - 5.9 - .4x$</p>	<p>20.) 43 is 15% of what number? Round to the hundredth if necessary.</p>
<p>21.) Solve for P: $\frac{2}{3}(x - p) = y$</p>	<p>22.) Solve the inequality and graph the solution: $-3x + 7 \leq -5$</p>
<p>23.) Solve the inequality and graph the solution: $5m - (3m - 2) < 14$</p> <p>25.) The city of Olympia charges a flat fee of \$13.10 for drinking water plus they charge .002 cents per gallon. If a family is billed for \$38.74, how many gallons of water did they use?</p>	<p>24.) The length of the medium side of a triangle is 1 less than twice the short side. The longest side is 5 more than twice the short side. The perimeter is 34 inches. Find the length of the sides.</p> <p>26.) Cheri gets paid \$22 each time she mows the lawn and \$15 each time she removes the dandelions for a certain family. If she worked 12 times in a summer and made \$236, how many times did she do each job?</p>

Chapter 3

27.) Complete each ordered pair so they are solutions to the equation.

$$5x - 3y = 10$$

(0, ___) (___, 0) (1, ___) (___, -2)

28.) Which of the following ordered pairs are solutions to the equation? $y = \frac{2}{3}x - 1$

(0, -1) (3, 1) $(\frac{9}{2}, -2)$ $(\frac{3}{2}, 0)$

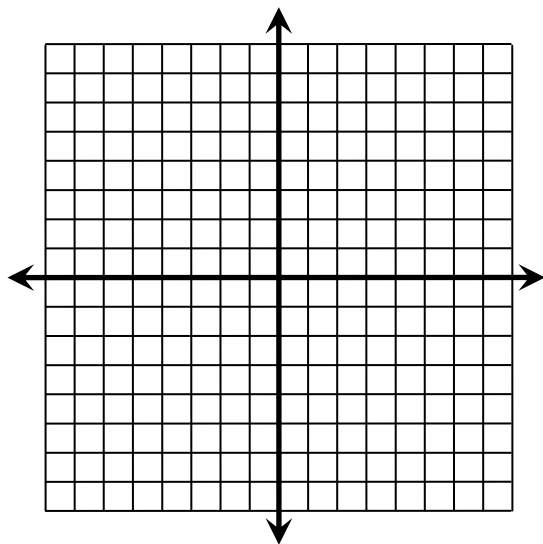
29.) Find the x-intercept, y-intercept, and slope.

$$3x + 4y = 6$$

30.) Find the x-intercept, y-intercept, and slope.

$$y = \frac{1}{2}x - 4$$

31.) Graph: $-2x + 5y = 10$



32.) Graph: $y = -\frac{2}{3}x - 3$

