

Top 10 V7

Thursday, May 1, 2014

Name:

Period:

1) Simplify

$$3 - 12 \cdot 5 \div 6 - 2^4$$

2) Simplify

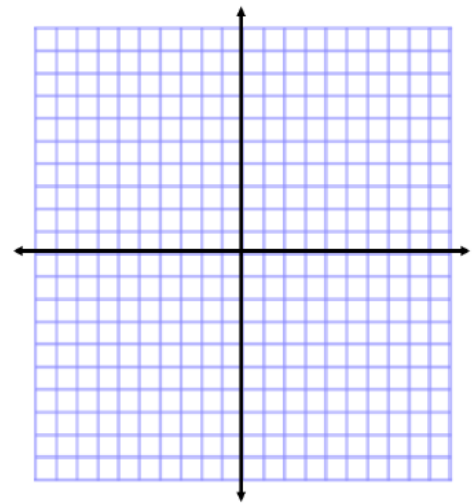
$$-5(2x + 3) - (-x - 4) + 6x$$

3) Solve

$$\frac{2x - 6}{3} = -4$$

4) Graph the linear equation

$$y = \frac{1}{3}x - 4$$



5) Solve and graph on a number line

$$2(x - 4) - 4x \geq x - 10 - 5x$$



6) Solve the system of linear equations

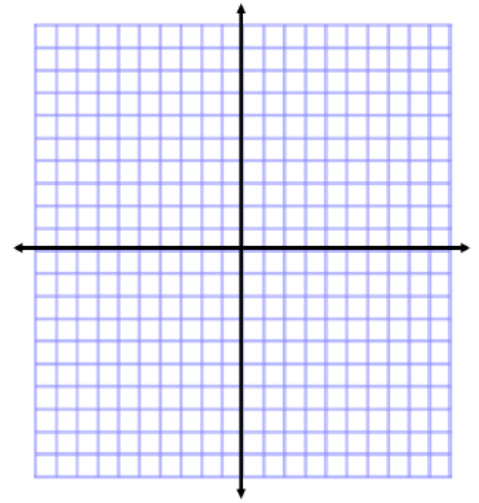
$$6x - 2y = -2$$

$$-4x + 4y = -20$$

7) Graph the system of linear inequalities

$$y \geq -x + 2$$

$$x < 4$$

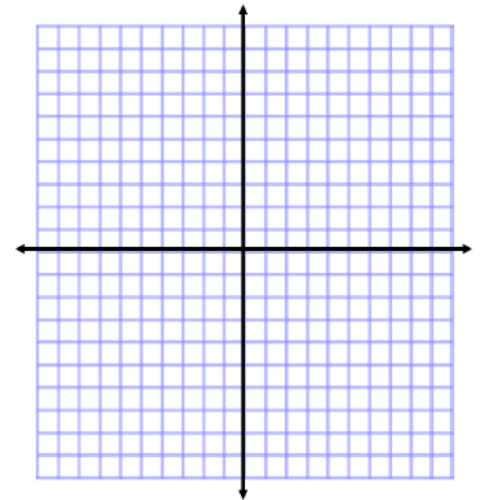


8) Find the zeroes of the quadratic function

$$0 = x^2 + 9x + 14$$

9) Graph the quadratic function

$$y = -2x^2 - 4x + 6$$



10) Simplify the radical $\sqrt{147}$

11) Multiply the polynomial $(x - 2)(2x + 3)$

12) What is the probability of picking two aces out of a deck of cards *without* replacing the first ace?