

# Top 10 V6

Thursday, May 1, 2014

Name:

Period:

1) Simplify

$$5 - \sqrt{4 \cdot 8 + 4} + (8 - 6 \cdot 3)$$

2) Simplify

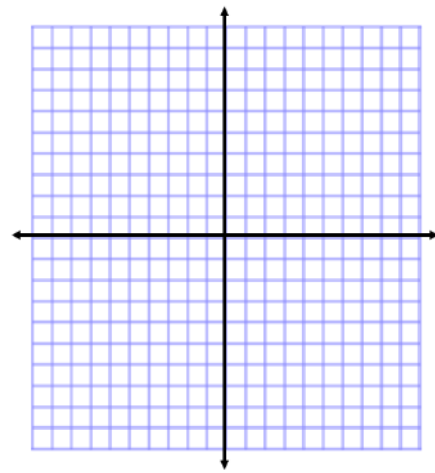
$$-2(3x - 8) - 5(2x + 4) + x$$

3) Solve

$$\frac{3}{2}x + \frac{1}{2} = \frac{7}{2}$$

4) Graph the linear equation

$$y = -\frac{2}{5}x + 1$$



5) Solve and graph on a number line

$$-(x - 4) \geq 2x - 8 + 3x$$



6) Solve the system of linear equations

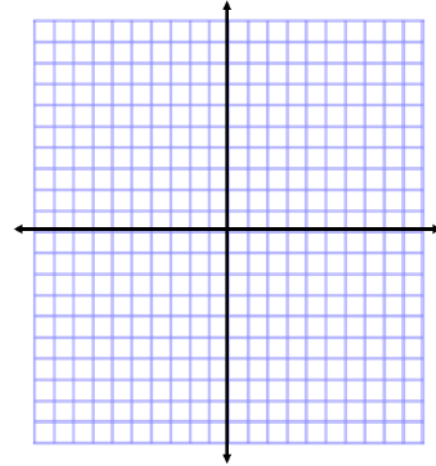
$$y = 3x + 1$$

$$y = x - 5$$

7) Graph the system of linear inequalities

$$y > -\frac{5}{2}x + 6$$

$$y < 2$$

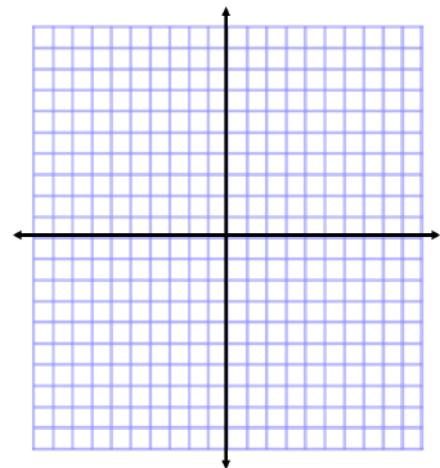


8) Find the zeroes of the quadratic function

$$0 = x^2 - 8x - 20$$

9) Graph the quadratic function

$$y = -x^2 + 6x - 1$$



10) Simplify the radical

$$\sqrt{150}$$