

1) Simplify $-3^2 - 12 + (8 + 6 \div 2)$

2) Simplify $2(x - 7) - 5(3x + 2) - 13$

3) Solve $-\frac{2}{3}x + 5 = \frac{7}{2}$

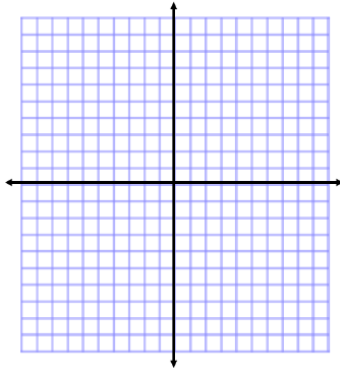
4) Solve and graph on a number line

$$3(2x - 1) + x < 13 + 5x$$



5) Graph the linear equation

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



6) Identify the *slope* and *y-intercept* of the linear function

$$-2x - 3y = 15$$

7) Solve the system of linear equations

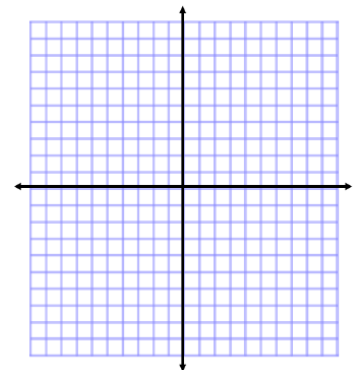
$$2x - 4y = 10$$

$$3x + 4y = 5$$

8) Graph the system of linear inequalities

$$y < x$$

$$y \geq -3$$

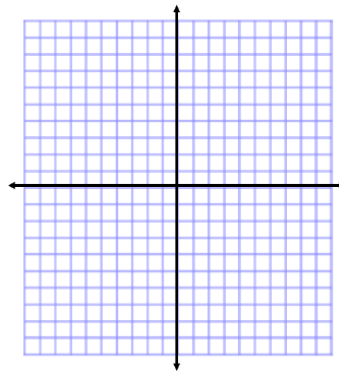


9) Find the zeroes of the quadratic function

$$0 = 2x^2 + 9x - 18$$

10) Graph the quadratic function

$$y = 2x^2 + 8x$$



11) Simplify the radical

$$5\sqrt{24}$$

12) Multiply the polynomial

$$(x + 3)(x - 7)$$

13) What is the probability of rolling an odd number **or** a multiple of 3 on a fair six-sided die?

14) Simplify using only positive exponents

$$\frac{-2x^3y^2}{4x^5y^{-4}z^0}$$

15) Write the equation of the line in *slope-intercept* form that passes through the points (1, 2) and (-3, 10)