Top 10^{+}V9 Period: Name:

1) Simplify $3 - 4^2 + 5 \cdot 2 - (4 - 6 \cdot 5)$

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

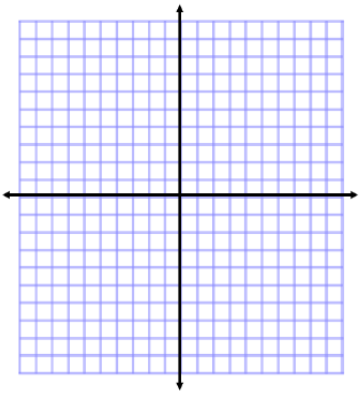
3) Solve $\frac{-2x-6}{3} = -4$

4) Solve and graph on a number line

$3x - 5 > 7(x + 4) - 1$

5) Graph the linear equation

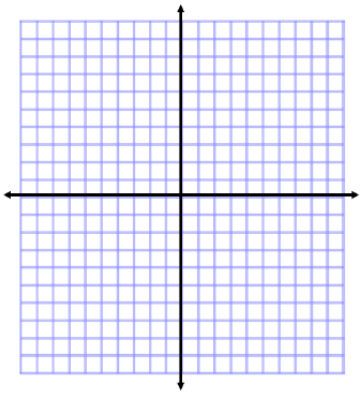
$y = 3x - 4$



6) Graph the system of linear inequalities

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

$y > 3x$



7) Solve the system of linear equations

$y = 2x - 4$

$3x - y = 6$

8) Multiply the polynomial

$(2x - 3)(4x - 1)$

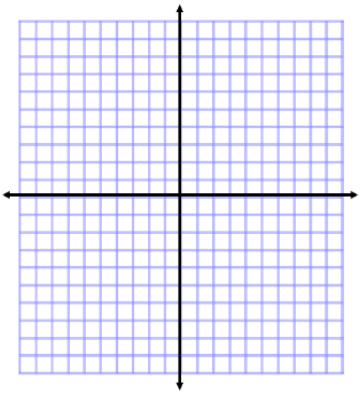
9) Identify the *slope* and *y-intercept*

$5x - 2y = -18$

10) Write the equation of the line in *slope-intercept* form that passes through the points $(-4, -11)$ and $(6, 4)$

11) Graph the quadratic function

$y = -3x^2 + 6x + 8$



12) Find the zeroes of the quadratic function

$x^2 - 7x + 10$

13) Simplify using only positive exponents

$$\left(\frac{-2x^3y^{-2}}{4x}\right)^2$$

14) In a standard deck of playing cards, what is the probability of pulling a card that is either a king *or* a diamond?

15) Simplify

$\sqrt{12} - 5\sqrt{3}$