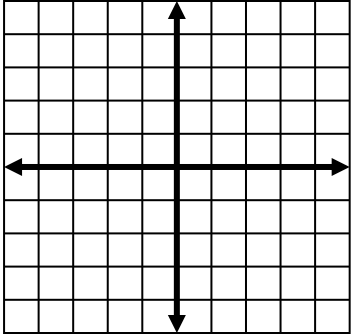
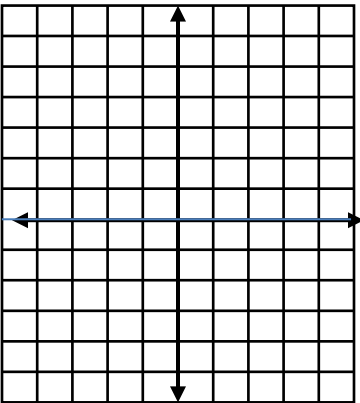


<p>1. The equation of line m is $2x - 3y = 6$. What is:</p> <p>a) the slope ?</p> <p>b) the y-intercept ?</p> <p>c) the x-intercept?</p>	<p>2. How many solutions does the linear system have?</p> $\begin{cases} y = \frac{2}{3}x - 1 \\ 6x - 9y = 9 \end{cases}$	<p>3. Graph the solutions:</p> $\begin{cases} y < \frac{1}{2}x + 2 \\ y \leq -3x + 3 \end{cases}$ 
<p>4. Write the set of equations that best represents the following problem (Do NOT solve):</p> <p>“Nine pickles and two carrots cost \$7.12. Four Pickles and five carrots cost \$5.64. Find the cost of a pickle and the cost of a carrot.”</p>	<p>5. Simplify:</p> $(3x^2 - 4x^3 + 2) - (2x^3 + 3x^2 - 8)$	<p>6. Simplify: $\frac{12x^8y^2}{-14x^2y^7}$</p>
<p>7. Multiply and simplify:</p> $(a - 8)(a - 4)$	<p>8. Factor <u>completely</u>: $x^2 - x - 12$</p>	<p>9. Factor <u>completely</u>:</p> $10y^2 - 5y - 15$

<p>10. Solve $(3x-4)(x+5) = 0$</p>	<p>11. What would you add to both sides to complete the square? $x^2 - 6x = 15$</p>	<p>12. Solve $x^2 + 18 = 9x$</p>
<p>13. Solve the following compound inequality: $7 \leq x + 12$ and $x - 2 < -1$</p>	<p>14. Use the quadratic formula to solve: $x^2 + 6x + 2 = 0$</p>	<p>15. A student has scores of 81, 87, 94, and 62. What score must the student earn on the fifth test in order to have an average score of 83?</p>
<p>16. Graph $y = x^2 + 2x - 3$</p> 	<p>17. How many times does the graph of $y = 4x^2 + 2x + 3$ intersect the x-axis?</p>	<p>18. The height of a rectangle is three more than twice the base. The area is 119 sq in. What is the height?</p>