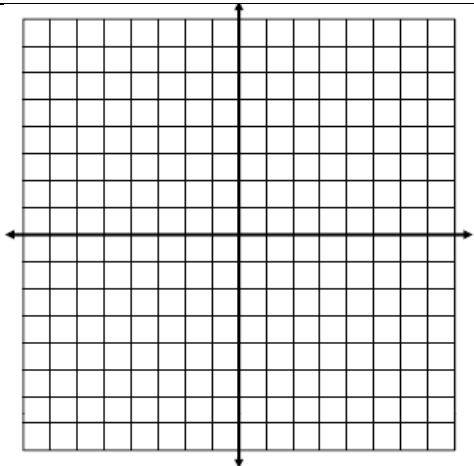
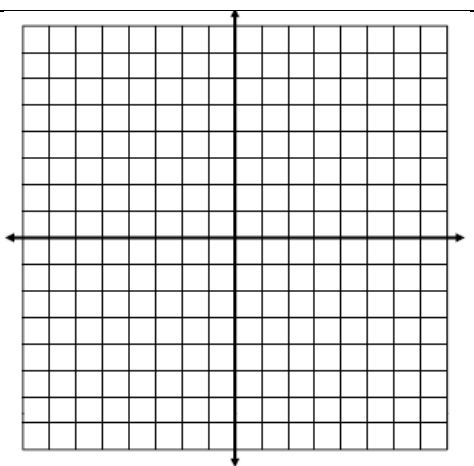
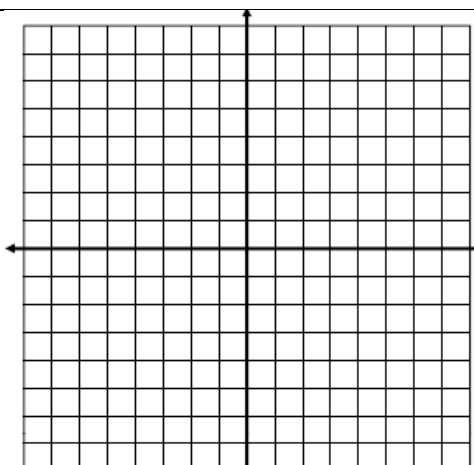


## Graphing Piecewise Functions Day 2 Homework

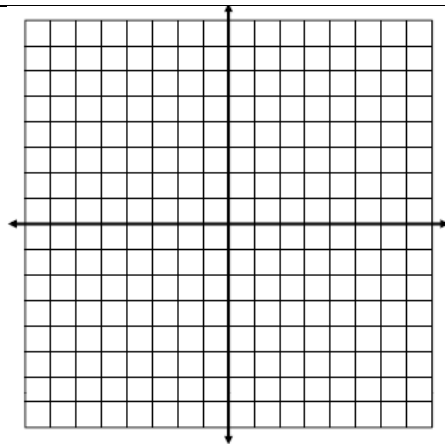
Directions: Graph each function, then give the domain and range.

<p>1. <math>f(x) = \begin{cases} x^3 - 1, &amp; x &lt; -1 \\ 3x + 5, &amp; x \geq -1 \end{cases}</math></p>	
Domain:	
Range:	
<p>2. <math>f(x) = \begin{cases} -x^2 + 7, &amp; x \leq -2 \\ 3x + 5, &amp; -2 &lt; x &lt; 7 \\ 6 - x, &amp; x \geq 7 \end{cases}</math></p>	
Domain:	
Range:	
<p>3. <math>f(x) = \begin{cases} - 3x - 2 , &amp; x &lt; 0 \\ x^2 - 5x, &amp; 0 \leq x \leq 4 \\ \frac{3}{2}x - 2, &amp; x &gt; 4 \end{cases}</math></p>	
Domain:	
Range:	

$$4. f(x) = \begin{cases} -\frac{1}{2}x^2, & x < 2 \\ 10 - x, & x \geq 2 \end{cases}$$

Domain:

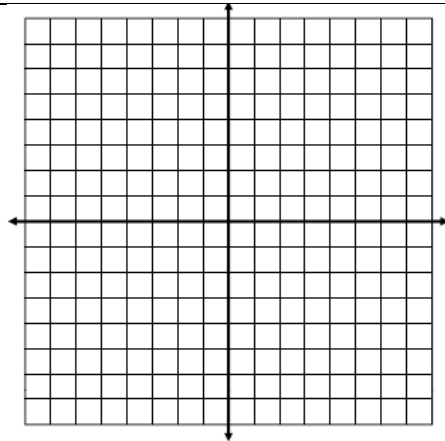
Range:



$$5. f(x) = \begin{cases} 3|x+4|, & x \leq -2 \\ -2, & -2 < x < 2 \\ x^2 - 11, & x \geq 2 \end{cases}$$

Domain:

Range:



$$6. f(x) = \begin{cases} \sqrt{-(x+3)}, & x < -4 \\ |2x| - 7, & -4 \leq x < 1 \\ 3x - 1, & x \geq 1 \end{cases}$$

Domain:

Range:

