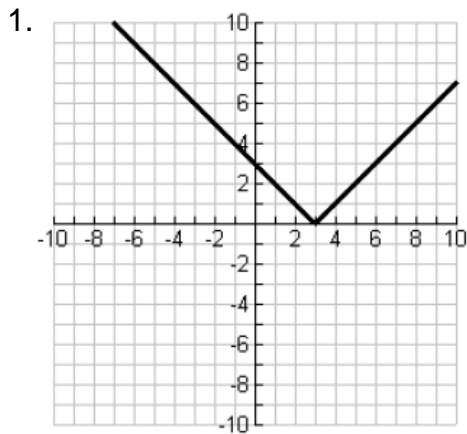


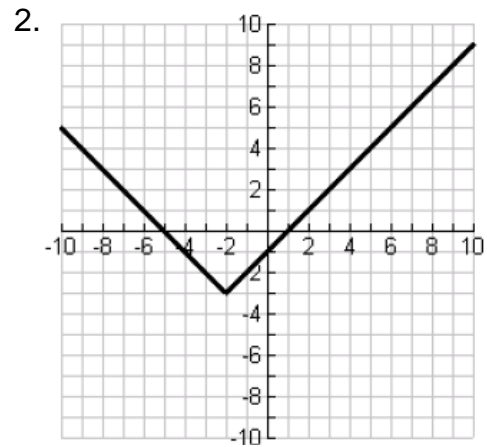
For the following, state the vertex and transformations, and write the equation of the transformed absolute value function. (Assume Vertical Stretch if necessary)



Vertex:

Trans:

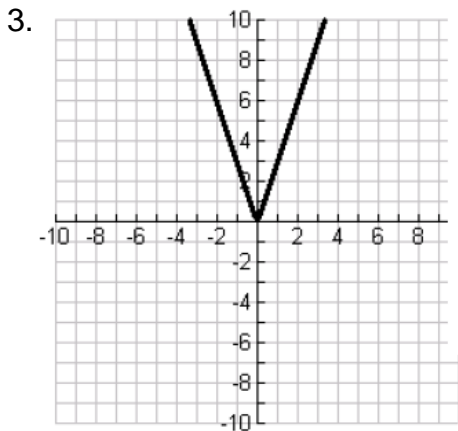
Equation:



Vertex:

Trans:

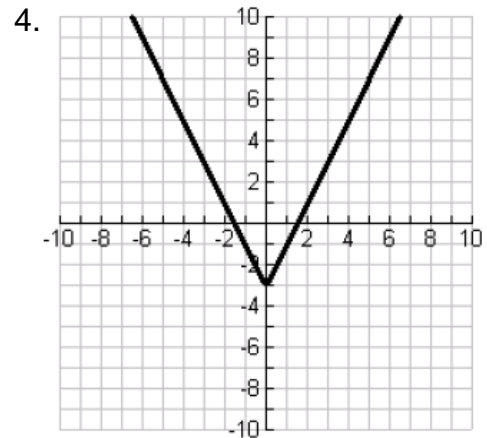
Equation:



Vertex:

Trans:

Equation:



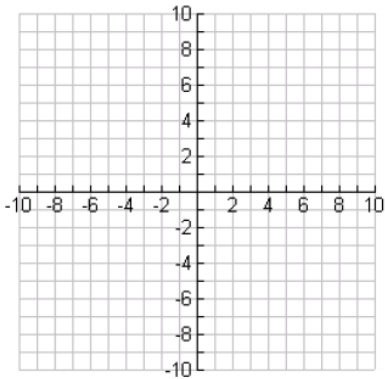
Vertex:

Trans:

Equation:

Given the equation of the absolute value function, graph and identify the following attributes.

5. $f(x) = -|x| - 2$

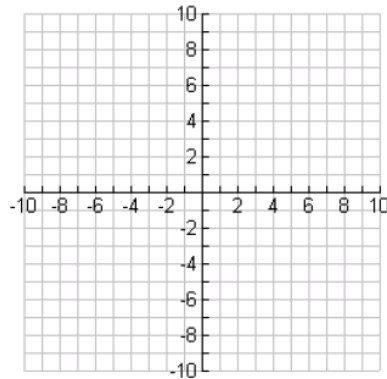


Trans:

Vertex:

Range:

6. $f(x) = 2|-x| + 3$

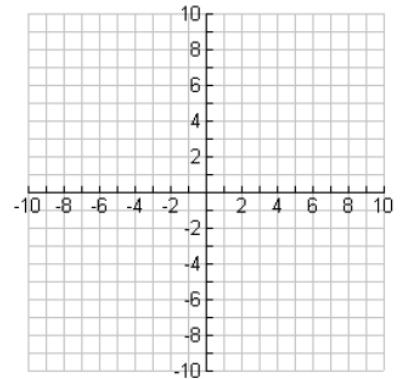


Trans:

Vertex:

Range:

7. $f(x) = -|x + 3| - 1$



Trans:

Vertex:

Range:

Given the following equations, identify the transformations, vertex and range.

8. $y = |4(x-1)| + 1$

Trans:

Vertex:

Range:

9. $y = -\left|\frac{1}{5}x\right| - 1$

Trans:

Vertex:

Range:

10. $y = 3|-(x+2)|$

Trans:

Vertex:

Range: