

SECTION 1.2: TRANSFORMATIONS OF LINEAR & ABSOLUTE VALUE FUNCTIONS

Homework: _____

Learning Targets:

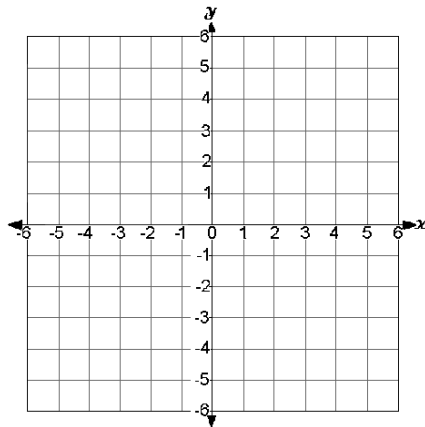
- 1a. Understanding of how to graph and write functions given transformations performed on parent functions.

Absolute Value Functions: $y = a|x - h| + k$

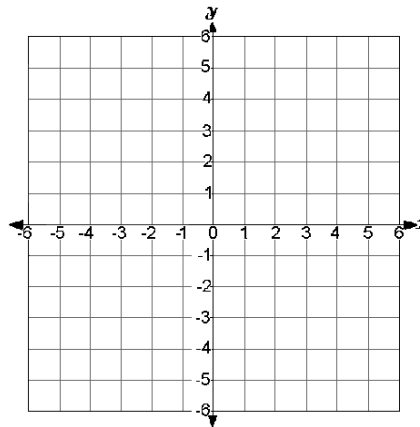
Vertex: _____ Direction: _____

Describe each transformation, state the vertex, graph the function, and determine the domain and range.

1. $y = |x - 3| + 2$



2. $f(x) = -\frac{1}{3}|x + 4| - 1$



Write an equation for the absolute value function after the given transformation.

3. Right 5, down 3, shrink by factor of 2. 4. Vertical flip, left 3, stretch by $\frac{3}{4}$.