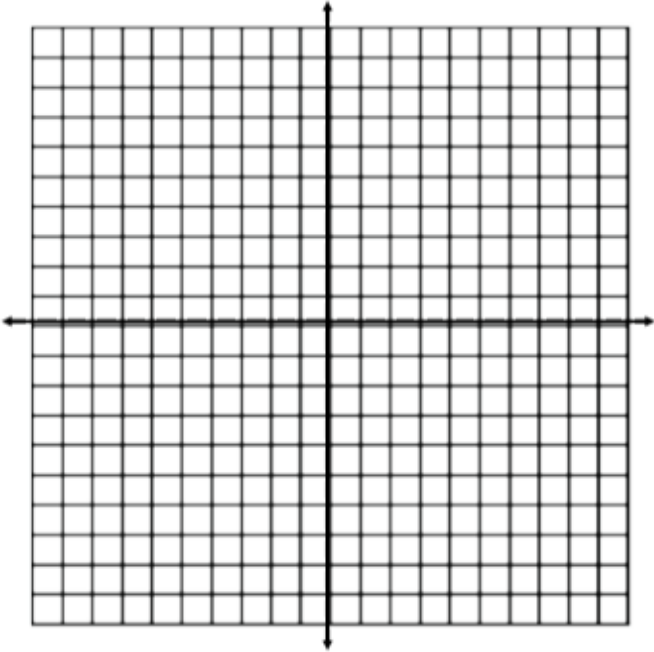


Name: _____

2.5 - 2.6: Putting it all Together

Graph the following functions using your knowledge about transformations. Identify the parent function and fill in the information that is asked.

1. $y = 3(x - 5)^2 + 2$



Parent Function: _____

Domain: _____

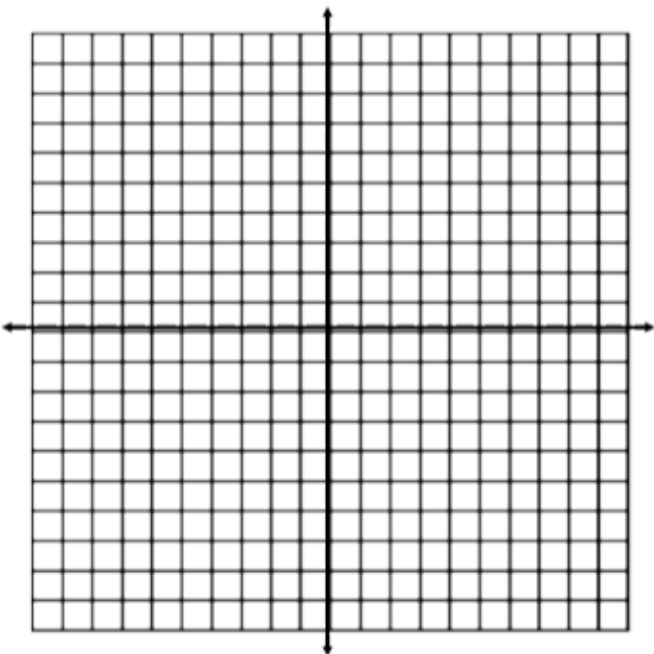
Range: _____

Vertex: _____

Increasing: _____

Decreasing: _____

2. $y = \frac{-1}{x^2} + 4$



Parent Function: _____

Domain: _____

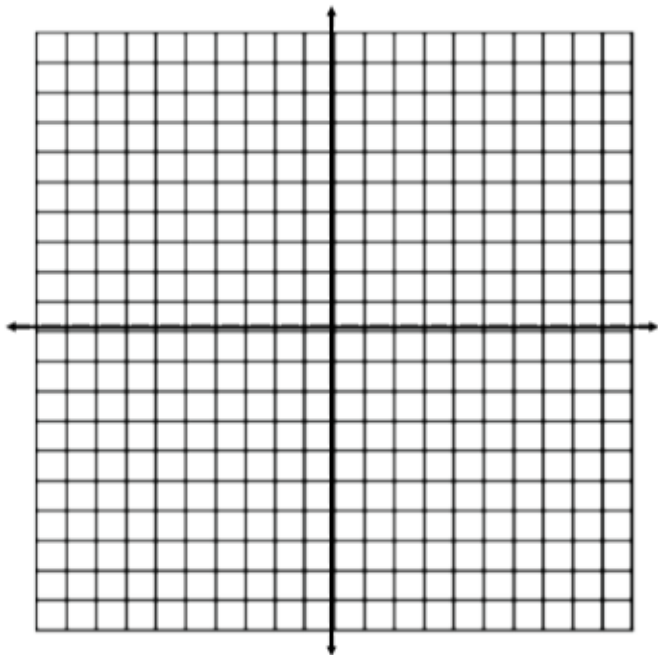
Range: _____

Asymptotes: _____

Increasing: _____

Decreasing: _____

3. $y = |x - 4| + 3$



Parent Function: _____

Domain: _____

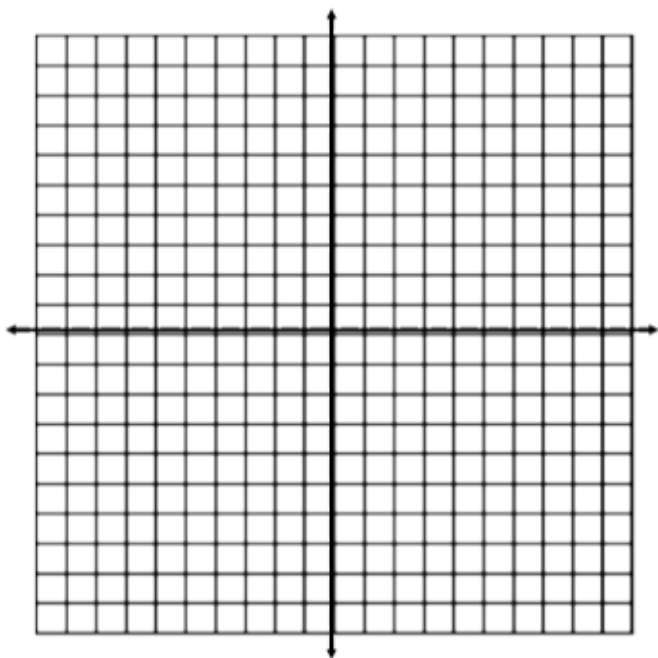
Range: _____

Vertex: _____

Increasing: _____

Decreasing: _____

4. $y = \sqrt{-x + 8}$



Parent Function: _____

Domain: _____

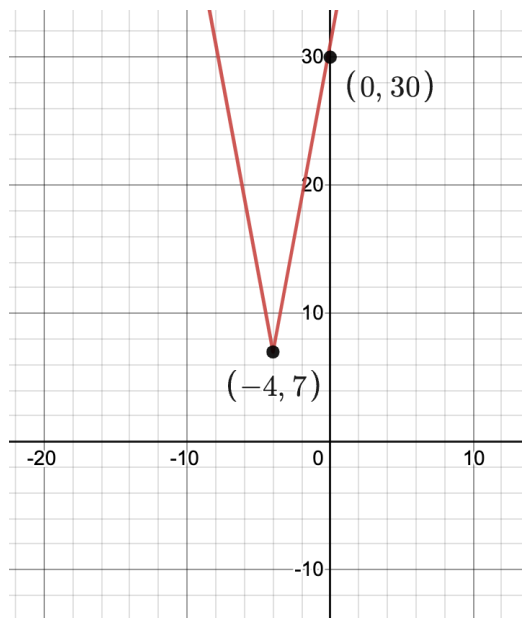
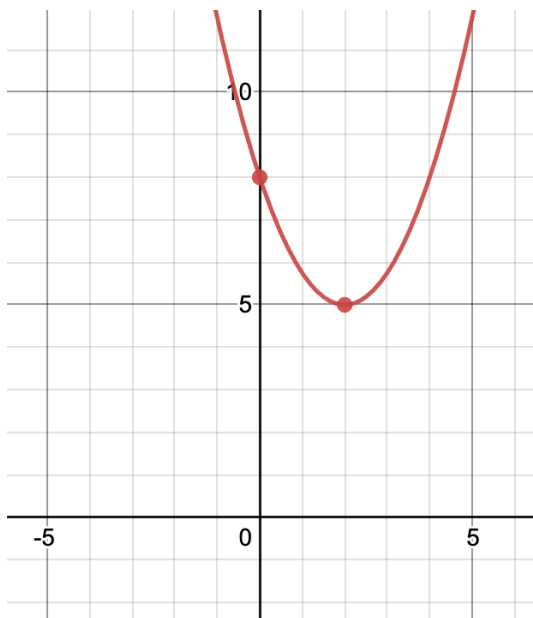
Range: _____

Increasing: _____

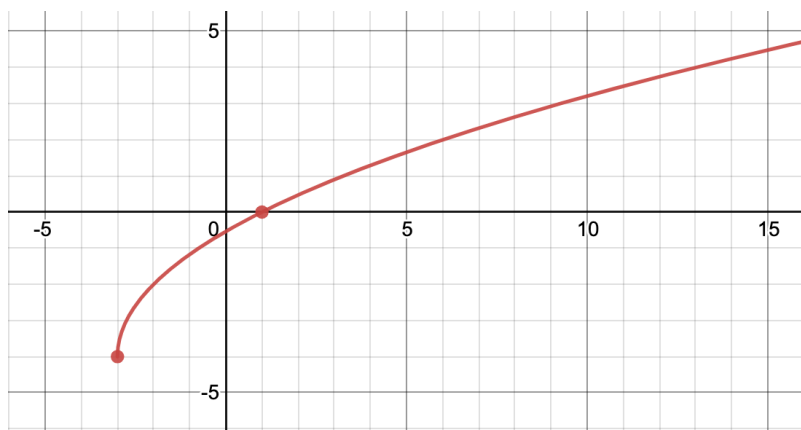
Decreasing: _____

Give the equation of each function given the graph.

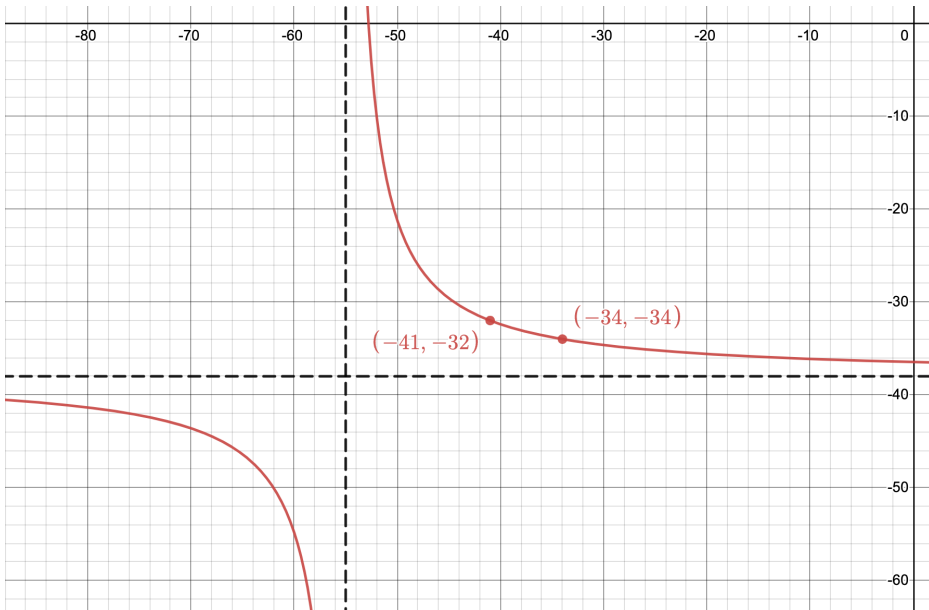
5. $y =$ _____ . 6. $y =$ _____



7. $y =$ _____



8. $y =$ _____



9. $y =$ _____

