

Unit 1 Day 3 HW(2)

Draw the parent graph first using a dotted (· · ·) line. Then sketch the final graph using a solid (—) line. Describe each transformation and identify the domain and range of the final graph.

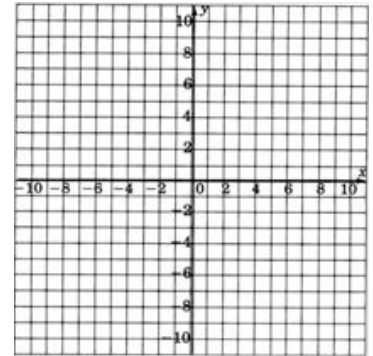
1. $f(x) = 2x^2 + 3$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____



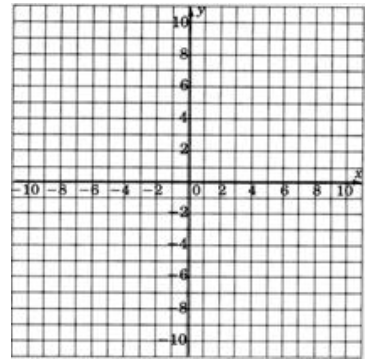
2. $f(x) = 3 - |x + 1|$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____



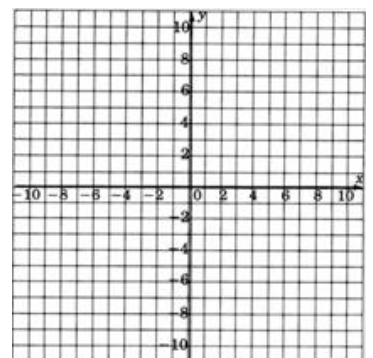
3. $h(x) = \frac{1}{2}\sqrt{-x + 3}$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____



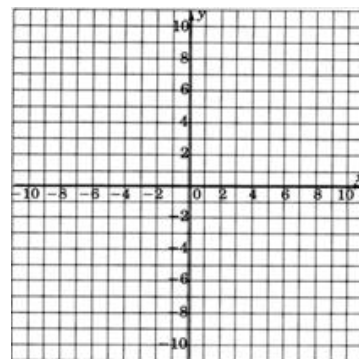
4. $f(x) = -(x^3 + 1) - 2$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____



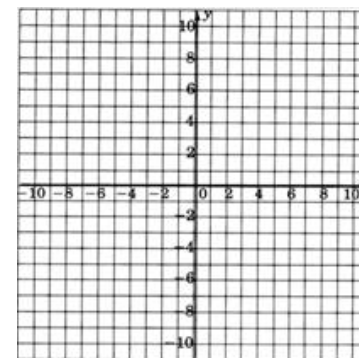
5. $g(x) = \frac{1}{3}x^2 - 4$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____



6. $y = 3\sqrt{4 + x} - 1$

Parent Function: _____

Transformation: _____

Domain: _____

Range: _____

