

4-Stretched and Compressed Transformations Classwork: Square Root

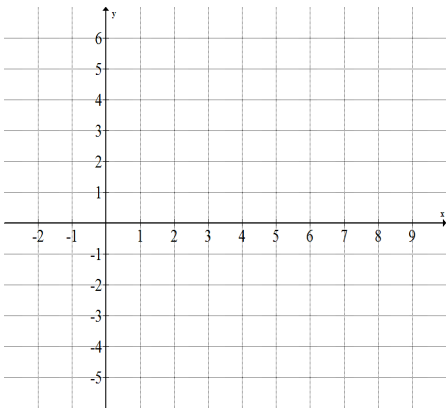
Identify the parent function, transformation, and significance of (h, k) . Then make a sketch with key points.

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

Parent Family:

Transformation:

Significance of (h, k) :

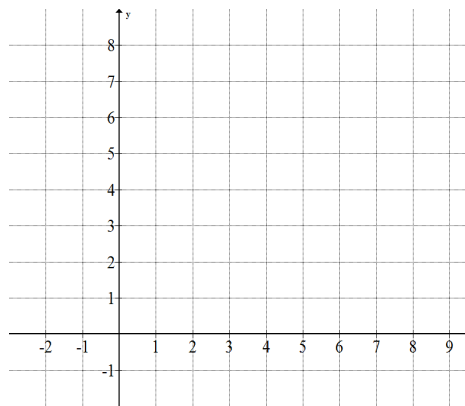


b. $y = 0.5\sqrt{(x + 2)} + 3$

Parent Family:

Transformation:

Significance of (h, k) :

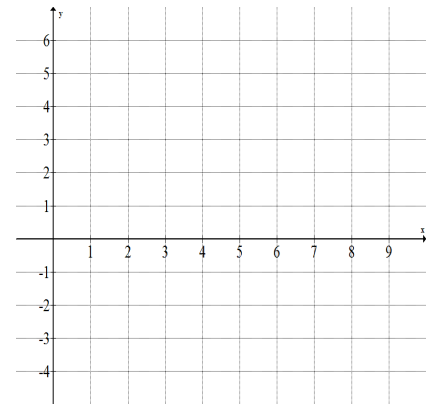


c. $y = -2\sqrt{(x - 1)} + 5$

Parent Family:

Transformation:

Significance of (h, k) :



Cubic Functions

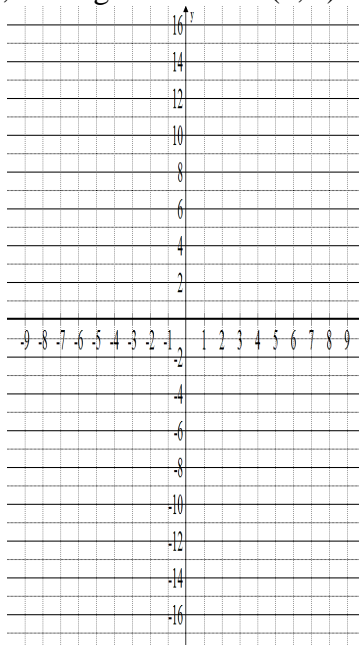
Identify the parent function, transformation, and significance of (h, k) . Then make a sketch with key points.

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

Parent Family:

Transformation:

Significance of (h, k) :

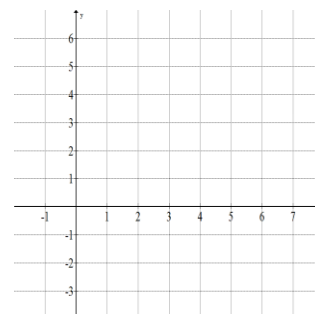


b. $y = 0.5(x - 4)^3 + 2$

Parent Family:

Transformation:

Significance of (h, k) :

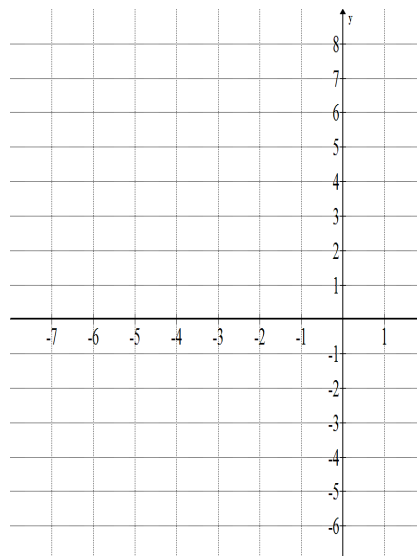


c. $y = -\frac{1}{4}(x + 3)^3 + 1$

Parent Family:

Transformation:

Significance of (h, k)



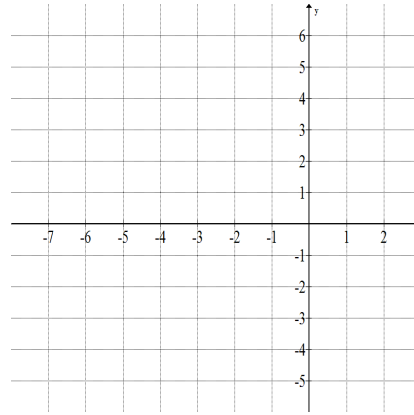
Parabolas

a. $y = 2(x + 3)^2 - 4$

Parent Family:

Transformation:

Significance of (h, k) :

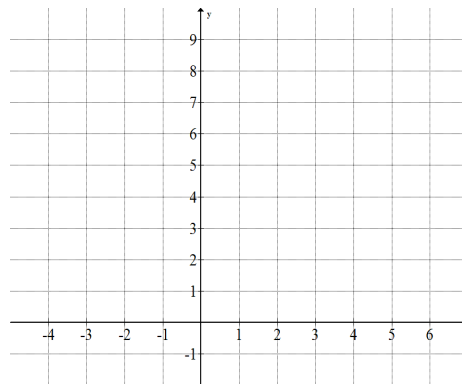


b. $y = 0.5(x - 2)^2 + 1$

Parent Family:

Transformation:

Significance of (h, k) :



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

Parent Family:

Transformation:

Significance of (h, k) :

