

**Given the parent function and a description of the transformation, write the equation of the transformed function,  $f(x)$ .**

Absolute Value — vertical shift up 5, horizontal shift right 3

Linear — vertical stretch/compression by  $\frac{2}{5}$

Square Root — flipped over the x axis, vertical shift down 2

Cubic — vertical stretch by 8

Quadratic — vertical stretch by 5, horizontal shift left 8