Translation – a transformation in which a figure is moved from one location to another on the coordinate plane without changing its size, shape, or orientation.

Transformations involving $y = a x^2 + c$ the bigger the "a" is the faster the ends of the graph go up if "a" is positive or down if "a" is negative, the graph becomes more narrow; the smaller the "a" is the slower the ends of the graph go up if "a" is positive or down if "a" is negative, the graph becomes wider; the "c" makes the whole graph go up or down but does not change the size.