

Name: Key

Quick Hit 1

1. If $p(x)$ is the parent function, describe the following transformations that you would apply to the graph of $p(x)$ if you wanted to graph...

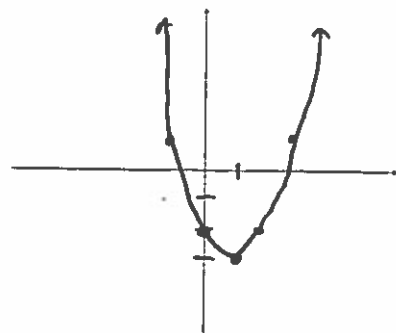
(a) $\dots 3p(x)$ vertical stretch by a factor of 3

(b) $\dots p(3x)$ horizontal stretch by a factor of $\frac{1}{3}$

(c) $\dots p(x) - 2$ vertical shift down 2 units

(d) $\dots p(x - 2)$ horizontal shift right 2 units

2. Sketch a graph of $f(x) = (x - 1)^2 - 3$ on the axes below. Is $f(x)$ even? Odd? Neither? Both?



$f(x)$ has neither rotational symmetry about the origin, nor reflective symmetry about the y -axis, so $f(x)$ is neither even, nor odd

