Problem 1. Section 1.2 #86

For the following exercises, for each polynomial, a. find the degree; b. find . . .

a. $\boxed{3}$

b. $\boxed{1,-1,-3}$

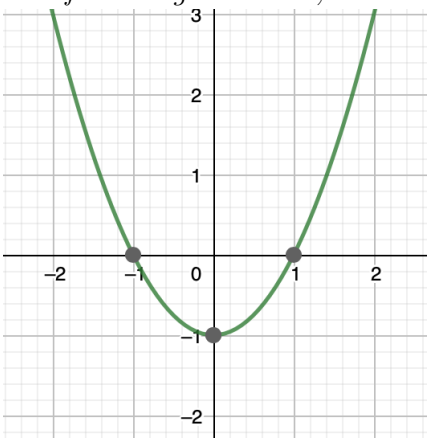
c. $\boxed{-3}$

d. $\boxed{f(x) \to \pm\infty \text{ as } x \to \pm\infty}$

e. $f(-x) = (-x)^3 + 3(-x)^2 - (-x) + 3 = -x^3 + x^2 + x + 3.$ $\boxed{\text{neither}}$

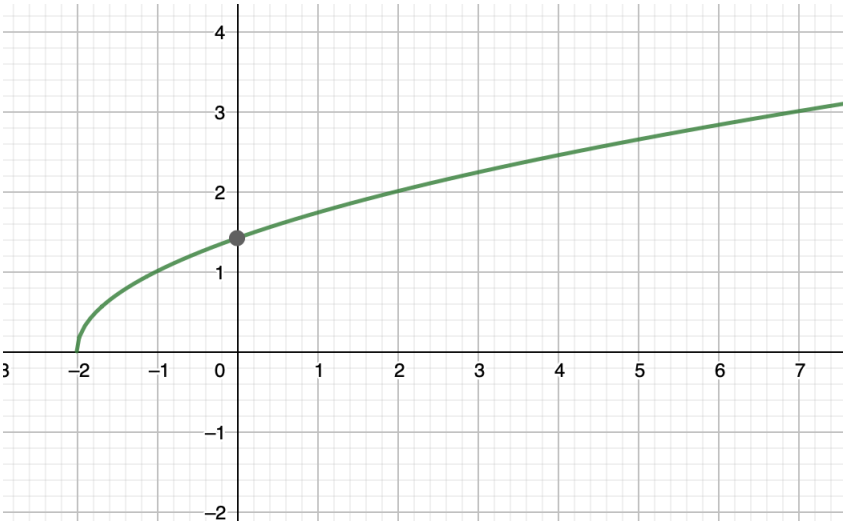
Problem 2. Section 1.2 #88

For the following exercises, use the graph of $f(x) = x^2$ to graph each transformed function g



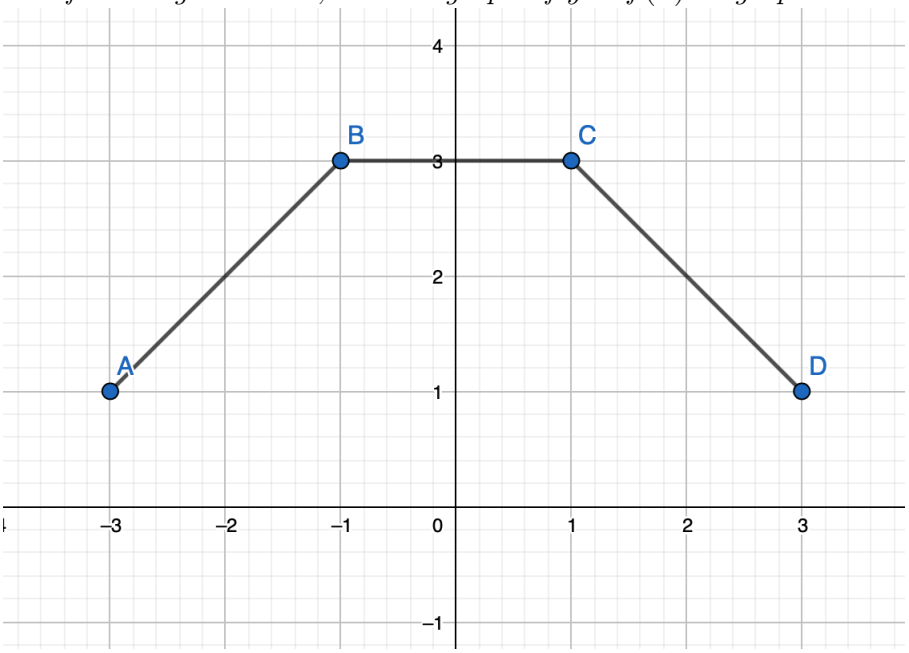
Problem 3. Section 1.2 #90

For the following exercises, use the graph of $f(x) = \sqrt{x}$ to graph each transformed function g



Problem 4. Section 1.2 #92

For the following exercises, use the graph of $y = f(x)$ to graph each transformed function g



Problem 5. Section 1.2 #96

For the following exercises, for each of the piecewise-defined ...

a. $\boxed{h(0) = 1, h(\pi) = \pi + 1, h(5) = 6}$

b.