

shift and stretch power functions.doc

Name: _____

Given power function $f(x)$ below, use the rules of shifting and stretching to determine the explicit equations for the other functions.

$$f(x) = x^3$$

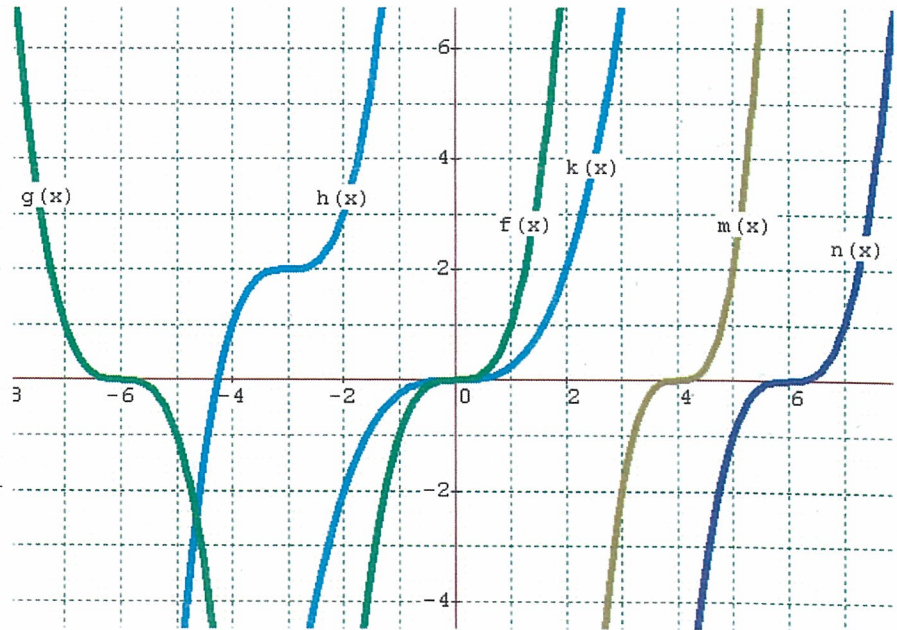
$$g(x) = -(x+6)^3$$

$$h(x) = (x+3)^3 + 2$$

$$k(x) = \frac{1}{3}x^3$$

$$m(x) = 2(x-4)^3$$

$$n(x) = (x-6)^3$$



$$f(x) = \sqrt{x}$$

$$g(x) = 3(x+2)^{1/2} + 1$$

$$h(x) = 3x^{1/2}$$

$$k(x) = -(x+4)^{1/2} - 3$$

$$m(x) = (x+2)^{1/2} - 2$$

