

Name: _____

College Algebra: Quiz #8 (Solutions)

1. Evaluate the function

$$f(x) = 6x^3 + 4x + 3$$

at $x = 2$, $x = 0$, $x = -3$, and $x = 1/2$.

Solution: We have

$$f(2) = 6(2)^3 + 4(2) + 3 = \boxed{59}$$

$$f(0) = 6(0)^3 + 4(0) + 3 = \boxed{3}$$

$$f(-3) = 6(-3)^3 + 4(-3) + 3 = \boxed{-171}$$

$$f\left(\frac{1}{2}\right) = 6\left(\frac{1}{2}\right)^3 + 4\left(\frac{1}{2}\right) + 3 = \boxed{23/4}$$