

**Formula for Delta y**

Find Delta y =  $f(x + \Delta x) - f(x)$ .

1.  $f(x) = 4\sin(-6x+3)$

2.  $f(x) = (x^2+1)/(x-2)$

3.  $f(x) = (x^2-6x)/(2x^2-12x+18)$

4.  $f(x) = -2\cos(3x-12)$

5.  $f(x) = 1(3x^2+1)^5$

6.  $f(x) = 1(-x^3-x)^{-3}$

**Formula for Delta y**

Find  $\Delta y = f(x + \Delta x) - f(x)$ .

7.  $f(x) = (1/2)/(x^2-4x+4)+(-3)/(x^2)$

8.  $f(x) = 2x^3-x+4$

9.  $f(x) = x^4-2x^2+3$

10.  $f(x) = -x^2-3x-5$