

Name: _____
PC: More Difference Quotients

Date: _____
Ms. Loughran

Find $\frac{f(x+h) - f(x)}{h}$ for each of the following.

1. $f(x) = x^2 - 5x - 1$

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

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

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

5. $f(x) = x^3 - 4x^2 + 5x$

6. $f(x) = \frac{1}{x}$

Homework

Find $\frac{f(x+h)-f(x)}{h}$ for each of the following.

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

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

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

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

5. $f(x) = 3 - 5x + 4x^2$

6. $f(x) = x^3 - 6x^2 + 12x - 8$