Name	Period	Date
Ms. Schmidt		Pre-Calculus

Bi-Weekly Homework Quiz 10

This is a weekly homework quiz that will be given every week and is due back the following Monday.

This quiz is due back: **January 16, 2018**

To receive full credit, all work must be shown. Any correct answer without work shown will receive only 1 point.

1) Simplify:

$$\frac{2x^2 - 7x + 3}{7x^2 - 28x} \div \frac{2x - 6}{16 - x^2} \bullet \frac{28x^3}{x^2 + 10x + 24}$$

2) Rationalize the denominator: $\frac{2-i\sqrt{3}}{2+i\sqrt{3}}$

3) Find the polynomial function given the roots: $\{0, 0, 3, -2 \pm i\sqrt{7}\}$

4) Simplify: $\frac{1-\frac{4}{x}}{1-\frac{2}{x}-\frac{8}{x^2}}$

5) If f(x) = x - 2 and $g(x) = x^2 - 3x + 2$ find, g(f(x)).