

Problem Set #1

A) State the excluded values. B) Simplify. (Leave in Factored Form.)

1) $\frac{4x-14}{16x-56}$

2) $\frac{8x^3-2x^2}{4x^2-x}$

3) $\frac{x^2+5x-14}{6x-3x^2}$

Problem Set #2

Simplify. Assume no denominator has excluded values. (Leave in Factored Form.)

4) $\frac{2x+4}{3x-33} \cdot \frac{x^2-121}{8x^2+16x}$

5) $\frac{2x^2-x-3}{x^2+x} \cdot \frac{x^2+5x}{2x+3}$

Problem Set #3

Simplify. Assume no denominator has excluded values. (Leave in Factored Form.)

6) $\frac{x^2+3x-10}{2x^2-50} \div \frac{2x-4}{x+5}$

7) $\frac{42-6x}{5x+20} \div \frac{3x-21}{10x^2-160}$