

**Intermediate Algebra Brush-Up Session --- Simple Rational Expressions, Solving Rational Equations, and Proportions**

If you placed into MATH 098, this might be useful for you

1. Simplify:

a)  $\frac{4x-20}{x-5}$

b)  $\frac{x-3}{3-x}$

2. Perform the operation and simplify:

a)  $\frac{2x-4}{x-3} \cdot \frac{5x-15}{x-2}$

b)  $\frac{t-10}{t^2+3t-10} \div \frac{t^2-100}{t+5}$

3. Perform the operation and simplify as far as possible:

a)  $\frac{n}{n+2} + \frac{3n-5}{n+2}$

b)  $\frac{2x}{x+1} - \frac{x-1}{x+1}$

4. Solve:

a)  $\frac{5x}{x+2} = \frac{10}{x+2}$

b)  $y - \frac{15}{y} = 2$

c)  $\frac{1}{x+7} + \frac{2}{x-7} = \frac{5}{x^2 - 49}$

5. Solve:

a)  $\frac{3}{5} = \frac{x}{23}$

b)  $\frac{x-5}{10} = \frac{x+2}{7}$

c)  $\frac{x}{4} = \frac{9}{x}$

Need more help? Check out these Modumath Lessons: Intermediate Algebra: SkillsLessons # 27 – 29; Prerequisite skills Lesson # 32 <http://modumath.org/mm/GraysHarbor.html>