

Show ALL work to receive credit.

Simplify the rational expressions, if possible.

1.  $\frac{5x}{4x-20}$

2.  $\frac{x+3}{x^2+14x+45}$

3.  $\frac{18x}{3x^2-24x}$

4.  $\frac{x+9}{x^2+6x-27}$

Find the product.

5.  $\frac{x+7}{3x-27} \cdot \frac{x-9}{x^2+9x+14}$

Find the quotient.

6.  $\frac{6x-12}{x^2+x-6} \div (x+3)$

Alg II CC  
Unit 3 - Lesson 1 - Assessment

Name \_\_\_\_\_ Pd. \_\_\_\_

Find the sum.

$$7. \frac{2x-12}{x+7} + \frac{3x+10}{x+7}$$

$$8. \frac{2}{x+3} + \frac{2x}{x+4}$$

Find the difference.

$$9. \frac{10x}{x+6} - \frac{13x-14}{x+6}$$

$$10. \frac{10x}{x+1} - \frac{3x-2}{x-2}$$