Name:­ Period:

Directions: Complete the following problems.

1. Factor: $x^{2}+x-2$

2. $\frac{x}{3}+\frac{2x}{3}=$

3. $\frac{\frac{1}{3}}{\frac{6}{x}}$

4. Factor: $3x^{2}-27$

5. $\frac{5x}{x-2}-\frac{x}{x-2}=$

6. $(4b+1)(b-6)$

7. $ \left(\frac{1}{4}\right)\left(\frac{x}{5}\right)$

8. Factor: $4x^{2}-8x+12$

9.Solve: $2x-3>2$

10. Simplify: $\frac{x^{2}-25}{x-5}$