

Factoring - Day 1  
Assignment

Name \_\_\_\_\_  
Period \_\_\_\_\_

**Factor out the Greatest Common Factor.**

1.  $6x^2 + 9x + 27$

2.  $14x^3 - 7x^2 - 35x$

3.  $25x^3 - 40x^2 + 10x$

4.  $4x^4 + 20x^3 + 12x^2$

5.  $49x^4 - 14x^3 - 28x$

6.  $2a^2 + 12ab + 6b^2$

7.  $3d^3 + d$

8.  $6a^4b - 10a^3b^2 - 6a^2b^3$

9.  $7ab^5 - 56ab$

**Find the missing factor.**

10.  $2b^4 = (\text{_____})(-2b)$

11.  $6a^3 + 20a^2 = (\text{_____})(3a + 10)$