



## Factoring: Putting It All Together

$$5x^2 + 20x - 60 = 5(x^2 + 4x - 12) = 5(x + 6)(x - 2)$$

Factor completely, write prime if prime.

1.  $2x^2 - 8$

9.  $4x^2 + 16x + 16$

2.  $2x^2 + 8x + 6$

10.  $18x + 12x^2 + 2x^3$

3.  $3n^2 + 9n - 30$

11.  $2x - 2xy^2$

4.  $6x^2 - 26x - 20$

12.  $3t^3 - 27t$

5.  $2x^2 + 12x - 80$

13.  $24a^2 - 30a + 9$

6.  $5t^2 + 15t + 10$

14.  $10x^2 + 15x - 10$

7.  $8n^2 - 18$

15.  $3x^2 - 42x + 147$

8.  $14x^2 + 7x - 21$

16.  $4x^4 - 4x^2$