

## Factoring trinomials; Combined

### Strategy

**Determine the factoring method to be used by determining the number of terms and the coefficients.**

Be sure to use the Distributive Property First. Then try the label as the Difference of 2 Squares, Addition Method ( $a = 1$ ) or the ac Method ( $a \neq 1$ )

**Factor each trinomial:**

1.  $x^2 - 16$

2.  $3x^2 + 10x + 7$

3.  $5x^2 + 7x + 2$

4.  $8x^2 - 10x + 3$

5.  $6x^2 - 17x + 5$

6.  $5x^2 + 15x$

7.  $3x^2 + 3x - 18$

8.  $3x^2 - 27$

9.  $x^2 + x - 30$

10.  $2a^2 - 7a - 4$

11.  $3x^2 - 10x - 25$

12.  $2x^2 - x - 3$

13.  $x^2 + 7x + 10$

14.  $-b^2 - 5b - 6$

15.  $16x^2 - 25y^2$

16.  $y^2 - 10y + 16$

17.  $m^2 - 9m + 20$

18.  $d^2 - 11d + 30$