

## Factoring trinomials

## Diff 2 Sq., Addition and ac Methods

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

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

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

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

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

6.  $10x^2 - 19x + 7$

7.  $x^2 + x - 6$

8.  $x^2 + x - 12$

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.  $a^2 + 4a + 3$

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

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

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

19.  $x^2 - 121$

20.  $3x^2 - 27$