

Perfect Square Trinomials

Factor each completely.

1) $a^2 - 10a + 25$

2) $9 - 12x + 4x^2$

3) $25n^2 + 30n + 9$

4) $25a^2 + 40a + 16$

5) $4x^2 + 4x + 1$

6) $25a^2 - 30a + 9$

Find each product.

7) $(7r - 5)^2$

8) $(5x - 4)^2$

9) $(5x + 2)^2$

10) $(3m - 6)^2$

11) $(8x + 1)^2$

12) $(7a + 4)^2$

Find the value that completes the square and then rewrite as a perfect square.

13) $p^2 - 17p + \underline{\hspace{1cm}}$

14) $p^2 - 30p + \underline{\hspace{1cm}}$

15) $x^2 + 34x + \underline{\hspace{1cm}}$

16) $p^2 - 7p + \underline{\hspace{1cm}}$

17) $p^2 - \frac{34}{21}p + \underline{\hspace{1cm}}$

18) $x^2 - 19x + \underline{\hspace{1cm}}$