

## Quadratic Expressions and Equations:

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**Find each product.**

1)  $(7a - 6)(a - 5)$

2)  $(3r + 7)(3r - 3)$

3)  $(4m - 7)^2$

4)  $(3 - 6x)(3 + 6x)$

**Factor each completely.**

5)  $a^2 - 2a - 3$

6)  $n^2 + 2n - 8$

7)  $3x^2 + 6x - 240$

8)  $k^2 - 6k$

**Solve each equation by factoring.**

9)  $x^2 - 4 = 0$

10)  $b^2 - 6b + 8 = 0$

11)  $n^2 + 10n + 16 = 0$

12)  $k^2 - 10k + 21 = 0$