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## Use the FOIL method to multiply the following binomials.

1.  $(x + 3)(x - 7)$   
 $x^2 - 4x - 21$

2.  $(4x + 5)(2x - 6)$   
 $8x^2 - 14x - 30$

3.  $(r + 9)(2r + 2)$   
 $2r^2 + 20r + 18$

4.  $(-n + 6)(-3n + 8)$   
 $3n^2 - 26n + 48$

5.  $(-4c - 3)(2c - 6)$   
 $-8c^2 + 18c + 18$

6.  $(3x + 9)(3x + 9)$   
 $9x^2 + 54x + 81$

7.  $(7p + 4)(p - 10)$   
 $7p^2 - 66p - 40$

8.  $(10t - 9)(-t - 7)$   
 $-10t^2 - 61t + 63$

9.  $(y - 3)(4y + 7)$   
 $4y^2 - 5y - 21$

10.  $(5h - 3)(-2h + 2)$   
 $-10h^2 + 10h - 6$

11.  $(8r - 6)(-r + 5)$   
 $-8r^2 + 46r - 30$

12.  $(5w - 3)(6w + 7)$   
 $30w^2 + 17w - 21$