

# Factoring: *Grouping Method*

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Factor completely the four-term polynomials.

1.  $12xy - 21x + 8y - 14$

7.  $15x^2 - 21x + 10xy - 14y$

2.  $30a^2 + 10a - 6ab - 2b$

8.  $6a^2 - 3ab - 18a + 9b$

3.  $6x^2 + 2x + 15x + 5$

9.  $4x^2 + 36x + x + 9$

4.  $7x^2 + 21xy + 2xy + 6y^2$

10.  $5x^2 - 5xy + xy - y^2$

5.  $3ab - 6a - b + 2$

11.  $6ax + 8bx - 15ay - 20by$

6.  $2xy - 5x + 22y - 55$

12.  $12xy + 20x - 24y - 40$

## ANSWERS:

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

4.  $(x + 3y)(7x + 2y)$

7.  $(5x - 7)(3x + 2y)$

10.  $(x - y)(5x + y)$

2.  $2(3a + 1)(5a - b)$

5.  $(b - 2)(3a - 1)$

8.  $3(2a - b)(a - 3)$

11.  $(3a + 4b)(2x - 5y)$

3.  $(3x + 1)(2x + 5)$

6.  $(2y - 5)(x + 11)$

9.  $(4x + 1)(x + 9)$

12.  $4(3y + 5)(x - 2)$