

Factoring By Grouping - Basic Technique

Factor the following:

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

2. $4x(3x - 2) - y(3x - 2)$

3. $5k(2k - 7) + (2k - 7)$

4. $ab + 3b + ac + 3c$

5. $3x^2 - 6x + xz - 2z$

6. $8p^3 + 6p^2 + 12p + 9$

7. $r^3 - 2r^2 - 2r + 4$

8. $2ax + ay - 2bx - by$

9. $8ef - 2f - 4e + 1$

10. $c^3 + cd^2 - 7c^2d - 7d^3$