

GCF and Factoring by Grouping (A)

Factoring Method 1 GCF:

1. $12x^3 + 16x^2 - 8x$
2. $4x - 20$
3. $2y^3 + 8xy$
4. $5x + 10y - 15$
5. $18xy^2 + 6x^3 - 12x^2$
6. $2y^2 - 10y + 20$
7. $y^7 - y^2$
8. $3a + 6$
9. $42m - 7$
10. $7a + 21p + 14$

Factoring Method 2 Grouping:

1. $5x^2 + 35x + 7x + 49$
2. $3x^2 - 6x + 5x - 10$
3. $7x^2 + 21x + 5x + 15$
4. $2x^2 - 4x + 3x - 6$
5. $7x^2 - 42x - x + 6$
6. $7x^2 - 42x + 2x - 12$
7. $2x^2 - 8x - 3x + 12$
8. $x^2 - 5x - 4x + 20$
9. $x^2 - 7x + 7x - 49$
10. $x^2 - 3x + 5x - 15$

GCF and Factoring by Grouping (B)

Factoring Method 1 GCF:

1. $16p^2 + 4p^3$
2. $9x + 36$
3. $6n^3 - 3n^5$
4. $-6r^5 - 6r^4$
5. $14 + 21a^2 + 21a^3$
6. $10n^3 - 9n^2 + n$
7. $-28v^2 - 8v - 36$
8. $-8x^7 + 24x^6 + 12x^5$
9. $20 - 35n^2 - 20n^3$

10. $9x^6 - 63x^3 - 90x^2$

Factoring Method 2 Grouping:

1. $n^2 + 9n + 2n + 18$
2. $a^2 - 3a - 3a + 9$
3. $x^2 - 4x - 3x + 12$
4. $x^2 - 9x - 2x + 18$
5. $m^2 + 8m - 8m - 64$
6. $35a^2 - 15a + 42a - 18$
7. $30x^2 - 24x - 5x + 4$
8. $8x^2 - 64x + x - 8$

9. $5x^2 - 4x + 15x - 12$

10. $4x^2 - x - 24x + 6$