

Factoring: *Greatest Common Factor (GCF)*

Factor out the greatest common factor (GCF)

1. $3x^2 + 15x$

7. $4x^2 - 12$

2. $4x^4 - 6x^3 + 8x^2$

8. $18x - 6$

3. $5y^3 - 15y$

9. $12x^3 - 9x^2 + 3x$

4. $6x + 9$

10. $14y^5 + 21y^4 - 49y^3$

5. $2x^2 - 10x + 6$

11. $13a^3 + 3a^2 - 11a$

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

12. $12x^4y - 8x^3y^2 + 16x^2y^3$

ANSWERS:

1. $3x(x + 5)$

4. $3(2x + 3)$

7. $4(x^2 - 3)$

10. $7y^3(2y^2 + 3y - 7)$

2. $2x^2(2x^2 - 3x + 4)$

5. $2(x^2 - 5x + 3)$

8. $6(3x - 1)$

11. $a(13a^2 + 3a - 11)$

3. $5y(y^2 - 3)$

6. No GCF

9. $3x(4x^2 - 3x + 1)$

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