

Additional exercises for factoring out the GCF

- $12x^2 - 18x$
- $5x^3 + 10x^2$
- $12x^3 - 18x^2 + 6x$
- $9x^2y - 3xy$
- $6x^3y^2 + 12x^2y$
- $8x^4 - 12x^3 - 4x^2$
- $15x^2y^2 - 5xy$
- $10x^4 + 20x^3$
- $4x^3y - 16xy$
- $21x^2 - 7x$
- $9x^4y^2 + 6x^3y - 3x^2y$
- $18x^3 - 6x$
- $5x^2y + 15xy^2$
- $14x^3y - 7xy$
- $16x^5y^2 - 24x^4y^2 + 8x^3y^2$
- $2x^5 + 6x^4$
- $25x^2 - 10x$
- $12x^3y + 4xy$
- $6x^3 - 15x^2 - 9x$
- $6x^2y^3 - 12xy^2$

Solutions. Additional exercises for factoring out the GCF

1. $12x^2 - 18x = 6x(2x - 3)$
2. $5x^3 + 10x^2 = 5x^2(x + 2)$
3. $12x^3 - 18x^2 + 6x = 6x(2x^2 - 3x + 1)$
4. $9x^2y - 3xy = 3xy(3x - 1)$
5. $6x^3y^2 + 12x^2y = 6x^2y(xy + 2)$
6. $8x^4 - 12x^3 - 4x^2 = 4x^2(2x^2 - 3x - 1)$
7. $15x^2y^2 - 5xy = 5xy(3xy - 1)$
8. $10x^4 + 20x^3 = 10x^3(x + 2)$
9. $4x^3y - 16xy = 4xy(x^2 - 4)$
10. $21x^2 - 7x = 7x(3x - 1)$
11. $9x^4y^2 + 6x^3y - 3x^2y = 3x^2y(3x^2y + 2x - 1)$
12. $18x^3 - 6x = 6x(3x^2 - 1)$
13. $5x^2y + 15xy^2 = 5xy(x + 3y)$
14. $14x^3y - 7xy = 7xy(2x^2 - 1)$
15. $16x^5y^2 - 24x^4y^2 + 8x^3y^2 = 8x^3y^2(2x^2 - 3x + 1)$
16. $2x^5 + 6x^4 = 2x^4(x + 3)$
17. $25x^2 - 10x = 5x(5x - 2)$
18. $12x^3y + 4xy = 4xy(3x^2 + 1)$
19. $6x^3 - 15x^2 - 9x = 3x(2x^2 - 5x - 3)$
20. $6x^2y^3 - 12xy^2 = 6xy^2(xy - 2)$