

Find the GCF of the following.

1. 6, 12, 24

2. $12x$, 6

3. $15x$, $9x$

4. a^2 , a^4 , a^6

5. $30x^4$, $6x^6$, $18x^2$

6. x^5y^3 , x^8y^2

7. $10a^3b^4c$, $5ab^3$, $20a^2b$

Factor the polynomial.

6. $7x - 14$

7. $16x - 8$

8. $5x^3 + 10x^2 - 15x$

9. $22x^3 + x^5 + 14x^7$

10. $28x^2y + 14xy^2 - 7xy$

11. $x^2z - xy^2 + xyz$

12. $8x^2 + 10x$

13. $12y - 16$

14. $-15d^5 + 45d^3$

15. $13a + 20b$

16. $c^3 + c^2 - c$

17. $6n^2 - 30n + 42$

18. $-7m^2 - 10m + 17$

19. $18p^3 - 63p^2 - 9p$

20. $18x^2 - 50y^2$

$$21. 100z^9 + 50z^6 - 75z^5$$

$$22. 36rs^2 - 108r^2s^3$$

$$23. 36k - 30$$

$$24. a^7b - a^{10}$$

$$25. 2c^5d^4 - 3c^4 + 4c^3$$

$$26. 3g^8 + 3g^7$$

$$27. 18x^5 - 48x^4 + 56x^3 - 86x$$

$$28. 23y^{10} - 46y^7 + 68y^2 + 10y$$