

Factorisation Exercises

1. $3a + 9b = 3(a + 3b)$
2. $4m - 20n = 4(m - 5n)$
3. $15q + 5q = 20q$
4. $3tu + 3tv = 3t(u + v)$
5. $4ab + 12a^2 = 4a(b + 3a)$
6. $8pq - 10p^2 = 2p(4q - 5p)$
7. $10xy - 9x^2 = x(10y - 9x)$
8. $27y^2 - 18xy = 9y(3y - 2x)$
9. $30t^3 + 6t^2 = 6t^2(5t + 1)$
10. $16p^3q + 15p^2q = p^2q(16p + 15)$
11. $18z^3 - 12z^2 = 6z^2(3z - 2)$
12. $4(b - c) + 3(b - c) = 7(b - c)$
13. $2t(m + n) + 3t(n + m) = 5t(n + m)$
14. $4pr + 3qr + 4ps + 3qs = (4p + 3q)(r + s)$
15. $2zx - 5yz + 2xt - 5yt = (2x - 5y)(z + t)$
16. $20km + 15lm + 20kn + 15ln = (20k + 15l)(n + m)$
17. $8kl + 12ml - 12mn - 8kn = 4(2k + 3m)(l - n)$
18. $x^2 + 7x + 12 = (x + 3)(x + 4)$
19. $x^2 + 10x + 24 = (x + 4)(x + 6)$
20. $a^2 + 11a + 18 = (a + 9)(a + 2)$
21. $x^2 + x - 12 = (x + 4)(x - 3)$

END