

Quadratic Factorisation

Factorise the following.

Q.1 $x^2 + 5x + 6$

Q.2 $x^2 + 3x + 2$

Q.3 $x^2 + 12x + 11$

Q.4 $x^2 + 7x + 12$

Q.5 $x^2 + 8x + 15$

Q.6 $x^2 + 11x + 18$

Q.7 $x^2 + 6x + 8$

Q.8 $x^2 + 8x + 7$

Q.9 $x^2 + 11x + 30$

Q.10 $x^2 + 9x + 20$

Q.11 $x^2 - 6x + 9$

Q.12 $x^2 - 8x + 12$

Q.13 $x^2 - 6x + 5$

Q.14 $x^2 - 11x + 30$

Q.15 $x^2 - 10x + 24$

Q.16 $x^2 - 9x + 20$

Q.17 $x^2 - 9x + 18$

Q.18 $x^2 - 8x + 15$

Q.19 $x^2 - 10x + 16$

Q.20 $x^2 - 3x + 2$

Q.21 $x^2 - 5x - 6$

Q.22 $x^2 - 2x - 15$

Q.23 $x^2 - 2x - 8$

Q.24 $x^2 - 6x - 7$

Q.25 $x^2 - 7x - 8$

Q.26 $x^2 - x - 12$

Q.27 $x^2 - x - 30$

Q.28 $x^2 - x - 6$

Q.29 $x^2 - 13x - 14$

Q.30 $x^2 - 4x - 12$

Q.31 $x^2 + 4x - 21$

Q.32 $x^2 + x - 6$

Q.33 $x^2 + x - 30$

Q.34 $x^2 + x - 12$

Q.35 $x^2 + 2x - 24$

Q.36 $x^2 + 4x - 5$

Q.37 $x^2 + 2x - 8$

Q.38 $x^2 + 5x - 6$

Q.39 $x^2 + 2x - 15$

Q.40 $x^2 + 6x - 7$

Harder factorisation

Factorise the following expressions.

Q41. $2x^2 + 5x + 2$

Q42. $7x^2 + 8x + 1$

Q43. $4x^2 + 3x - 7$

Q44. $24t^2 + 19t + 2$

Q45. $15t^2 + 2t - 1$

Q46. $16x^2 - 8x + 1$

Q47. $6y^2 + 33y - 63$

Q48. $4y^2 + 8y - 96$

Q49. $8x^2 + 10x - 3$

Q50. $7x^2 - 37x + 10$

Q51. $6t^2 + 13t + 5$

Q52. $3x^2 - 16x - 12$

Q53. $3x^2 + 8x - 3$

Q54. $28x^2 - 85x + 63$

Q55. $9m^2 - 24m - 9$

Q56. $4t^2 - 4t - 35$

Q57. $18t^2 + 9t + 1$

Q58. $3t^2 - 14t + 8$

Q59. $6x^2 + 15x - 9$

Q60. $12x^2 - 16x - 35$

In the form of $a^2 - b^2 = (a+b)(a-b)$

Factorise the followings.

Q.61 $x^2 - 25$

Q.62 $3x^2 - 12$

Q.63 $x^2 - 4y^2$

Q.64 $3x^2 - 27$

Q.65 $9x^2 - 16y^2$

Q.66 $2x^2 - 32$

Q.67 $25x^2 - 36y^2$

Q.68 $2t^2 - 50$

Q.69 $36a^2 - 49b^2$

Q.70 $5a^2 - 80$

Q.71 $64a^2 - 81b^2$

Q.72 $4x^3 - 36x$

Factorise fully

Q73. $(n^2 - a^2) - (n - a)^2$

Q74. $(3x+4)^2 - (2x+1)^2$

Q75. $4/a^2 - 9/b^2$

Q76. $a^2/b^2 - c^2$

Q77. $c^2 - 1/4a^2$

Q78. $49/z^2 - 4/t^2$

Q79. $4a^2b^2 - 9c^2$

Q80. $(x + 1)^2 - (y + 1)^2$