

Algebra

Factorising trinomials with $a = 1$ and $c < 0$ Memo

$$\begin{aligned}1. \quad &x^2 - 21x - 22 \\&= (x - 22)(x + 1)\end{aligned}$$

$$\begin{aligned}2. \quad &x^2 + 4x - 32 \\&= (x + 8)(x - 4)\end{aligned}$$

$$\begin{aligned}3. \quad &x^2 - 3x - 4 \\&= (x - 4)(x + 1)\end{aligned}$$

$$\begin{aligned}4. \quad &x^2 - 7x - 18 \\&= (x - 9)(x + 2)\end{aligned}$$

$$\begin{aligned}5. \quad &x^2 - 4 \\&= (x - 2)(x + 2)\end{aligned}$$

$$\begin{aligned}6. \quad &x^2 - x - 72 \\&= (x - 9)(x + 8)\end{aligned}$$

$$\begin{aligned}7. \quad &x^2 + 2x - 48 \\&= (x + 8)(x - 6)\end{aligned}$$

$$\begin{aligned}8. \quad &x^2 - 10x - 200 \\&= (x - 20)(x + 10)\end{aligned}$$

$$\begin{aligned}9. \quad &x^2 - 18x - 19 \\&= (x - 19)(x + 1)\end{aligned}$$

$$\begin{aligned}10. \quad &x^2 + x - 56 \\&= (x + 8)(x - 7)\end{aligned}$$

$$\begin{aligned}11. \quad &x^2 - 16x - 17 \\&= (x - 17)(x + 1)\end{aligned}$$

$$\begin{aligned}12. \quad &x^2 + 9x - 22 \\&= (x + 11)(x - 2)\end{aligned}$$

$$\begin{aligned}13. \quad &x^2 - 4x - 45 \\&= (x + 5)(x - 9)\end{aligned}$$

$$\begin{aligned}14. \quad &x^2 + 8x - 48 \\&= (x + 12)(x - 4)\end{aligned}$$

$$\begin{aligned}15. \quad &x^2 - 23x - 24 \\&= (x - 24)(x + 1)\end{aligned}$$

$$\begin{aligned}16. \quad &x^2 - 2x - 80 \\&= (x - 10)(x + 8)\end{aligned}$$

$$\begin{aligned}17. \quad &x^2 + 5x - 50 \\&= (x - 5)(x + 10)\end{aligned}$$

$$\begin{aligned}18. \quad &x^2 - 400 \\&= (x - 20)(x + 20)\end{aligned}$$

19. $x^2 + 10x - 75$
 $= (x - 5)(x - 15)$
20. $x^2 + 12x - 64$
 $= (x - 4)(x + 16)$
21. $x^2 - 16x - 57$
 $= (x + 3)(x - 19)$
22. $x^2 - 21x - 46$
 $= (x + 2)(x - 23)$
23. $x^2 + 10x - 96$
 $= (x - 6)(x + 16)$
24. $x^2 + 8x - 33$
 $= (x + 11)(x - 3)$
25. $x^2 - x - 56$
 $= (x + 7)(x - 8)$
26. $x^2 - 9x - 360$
 $= (x + 15)(x - 24)$
27. $x^2 + 20x - 44$
 $= (x - 2)(x + 22)$
28. $x^2 - x - 552$
 $= (x + 23)(x - 24)$
29. $x^2 + 3x - 460$
 $= (x - 20)(x + 23)$
30. $x^2 - 11x - 210$
 $= (x + 10)(x - 21)$
31. $x^2 + 19x - 92$
 $= (x - 4)(x + 23)$
32. $x^2 - 14x - 51$
 $= (x + 3)(x - 17)$
33. $x^2 - 15x - 100$
 $= (x + 5)(x - 20)$
34. $x^2 + 17x - 200$
 $= (x - 8)(x + 25)$
35. $x^2 + 13x - 48$
 $= (x - 3)(x + 16)$
36. $x^2 + 10x - 39$
 $= (x - 3)(x + 13)$
37. $x^2 + 16x - 80$
 $= (x - 4)(x + 20)$
38. $x^2 + 6x - 112$
 $= (x - 8)(x + 14)$

39. $x^2 - 24x - 25$
 $= (x - 25)(x + 1)$

40. $x^2 - 7x - 260$
 $= (x + 13)(x - 20)$

41. $x^2 - x - 42$
 $= (x + 6)(x - 7)$

42. $x^2 + 12x - 160$
 $= (x - 8)(x + 20)$

43. $x^2 - 13x - 168$
 $= (x + 8)(x - 21)$

44. $x^2 - 17x - 84$
 $= (x + 4)(x - 21)$

45. $x^2 - 21x - 100$
 $= (x + 4)(x - 25)$

46. $x^2 - 3x - 108$
 $= (x + 9)(x - 12)$

47. $x^2 + 19x - 66$
 $= (x - 3)(x + 22)$

48. $x^2 - 13x - 90$
 $= (x + 5)(x - 18)$

49. $x^2 + 5x - 300$
 $= (x - 15)(x + 20)$

50. $x^2 - 6x - 315$
 $= (x + 15)(x - 21)$