Factoring Trinomials (a=1)

Questions

For problems 1-9, factor the trinomial.

1) $x^2 + 5x + 6$

2) $x^2 - 4x - 21$

3) $x^2 + 5x - 6$

4) $x^2 - 4x + 4$

5) $x^2 + 7x + 12$

6) $x^2 - 8x + 12$

7) $x^2 + 5x + 6$

8) $x^2 - 6x + 8$

9) $x^2 - 8x - 20$

Challenge questions

10) $x^4 + 5x^2 + 6$

11) $x^4 - 5x^2 + 4$

12) What is the sum of the solutions of $x^2 + 5x = 6$?

13) Solve for x. $4 = \dfrac{x^2 - 9}{3 - x}$