Solving Quadratic Equations using Completing the Square

Solve each equation using the “completing the square” method.

Show all steps!

4 perfect squares, 3 that can be simplified, 3 that can’t be simplified

1. v2 + 6v – 49 = 10
2. 2k2 – 24k = -46
3. a2 + 12a – 51 = -2a
4. 3n2 – 6n – 9 = 0
5. x2 – 10x + 26 = 8
6. 2x2 – 24x + 24 = 0
7. x2 + 14x = 15
8. n2 = 16n + 17
9. 2x2 + 12x = 72

10. p2 + 14p – 26 = 12