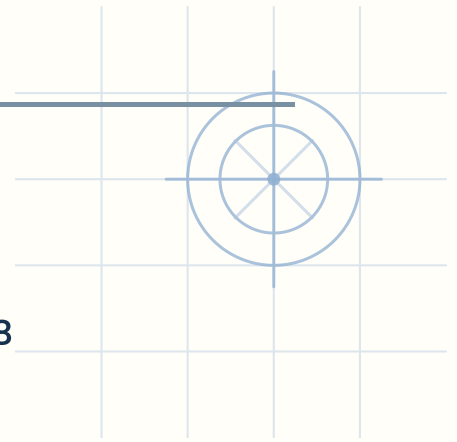


Completing the square — Up to 6

Name: _____

Date: _____

Write each expression as $(x + p)^2 + q$.



1 $x^2 + 2x - 2$

2 $x^2 + 4x - 28$

3 $x^2 + 12x + 33$

4 $x^2 + 10x + 31$

5 $x^2 - 6x - 11$

6 $x^2 - 2x + 11$

7 $x^2 - 8x$

8 $x^2 + 4x + 4$

9 $x^2 - 4x - 12$

10 $x^2 - 6x + 19$



Completing the square · Up to 6 — Answer key

1. $x^2 + 2x - 2 = (x + 1)^2 - 3$

2. $x^2 + 4x - 28 = (x + 2)^2 - 32$

3. $x^2 + 12x + 33 = (x + 6)^2 - 3$

4. $x^2 + 10x + 31 = (x + 5)^2 + 6$

5. $x^2 - 6x - 11 = (x - 3)^2 - 20$

6. $x^2 - 2x + 11 = (x - 1)^2 + 10$

7. $x^2 - 8x = (x - 4)^2 - 16$

8. $x^2 + 4x + 4 = (x + 2)^2$

9. $x^2 - 4x - 12 = (x - 2)^2 - 16$

10. $x^2 - 6x + 19 = (x - 3)^2 + 10$

