

For each function below, determine what type of function it is and provide evidence to support your claim. If it is quadratic, find the x-intercept(s), y-intercept and vertex.

1. $y = x^2 - 9$

2. $y = 2(x + 7)$

3. $y = x(x + 7)$

4. $y = (x + 4)(x - 2)$

5. $y = x^2 + 4x + 4$

6. $y = (2x + 3) - (x + 7)$

7. $y = 2x^2 - 3x - 9$

8. $y = x + x + 9$

9. $y = (6 + 5)(x + 2)$

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