



Quadratic Equation Word Problem To Quadratic Solution Type - Profit by Volume

1 Given this equation for the profit as a function of production volume, what would you use to find the production volume that maximizes profit?

$$P(v) = -3v^2 + 7v + 6$$

- A The root of the quadratic B The x value of the vertex
C The y value of the vertex

2 Given this equation for the profit as a function of production volume, what would you use to find when the profit becomes zero?

$$P(v) = -6v^2 + 4v + 7$$

- A The root of the quadratic B The x value of the vertex
C The y value of the vertex

3 Given this equation for the profit as a function of production volume, what would you use to find the maximum profit?

$$P(v) = -6v^2 + 4v + 10$$

- A The x value of the vertex B The root of the quadratic
C The y value of the vertex

4 Given this equation for the profit as a function of production volume, what would you use to find the production volume that maximizes profit?

$$P(v) = -5v^2 + 6v + 10$$

- A The y value of the vertex B The root of the quadratic
C The x value of the vertex

5 Given this equation for the profit as a function of production volume, what would you use to find when the profit becomes zero?

$$P(v) = -11v^2 + 6v + 2$$

- A The x value of the vertex B The y value of the vertex
C The root of the quadratic

6 Given this equation for the profit as a function of production volume, what would you use to find when the profit becomes zero?

$$P(v) = -6v^2 + 6v + 9$$

- A The y value of the vertex B The x value of the vertex
C The root of the quadratic

7 Given this equation for the profit as a function of production volume, what would you use to find the production volume that maximizes profit?

$$P(v) = -9v^2 + 5v + 11$$

- A The x value of the vertex B The root of the quadratic
C The y value of the vertex

8 Given this equation for the profit as a function of production volume, what would you use to find when the profit becomes zero?

$$P(v) = -7v^2 + 8v + 7$$

- A The x value of the vertex B The y value of the vertex
C The root of the quadratic