

Student Name: _____

Period: _____

Date: _____

FIND THE AXIS OF SYMMETRY (AOS), VERTEX AND ROOTS FOR EACH EQUATION

1: $x^2 - 25 = 0$

AOS : **X = 0**

Vertex : **(0, -25)**

Roots : **(5, 0) and (- 5, 0)**

2: $x^2 - 17 = 0$

AOS : **X = 0**

Vertex : **(0, -17)**

Roots : **($\sqrt{17}$, 0) and (- $\sqrt{17}$, 0)**

3: $x^2 - 8100 = 0$

AOS : **X = 0**

Vertex : **(0, -8100)**

Roots : **(90, 0) and (- 90, 0)**

4: $7x^2 - 7 = 0$ (Hint: Divide the Equation by 7)

AOS : **X = 0**

Vertex : **(0, -1)**

Roots : **(1, 0) and (- 1, 0)**

5: $x^2 - \frac{1}{16} = 0$

AOS : **X = 0**

Vertex : **(0, -1/16)**

Roots : **(1/4, 0) and (- 1/4, 0)**

6: $\frac{1}{2}x^2 - 8 = 0$

AOS : **X = 0**

Vertex : **(0, -16)**

Roots : **(4, 0) and (- 4, 0)**