

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Eccentricity

Identify the eccentricity of each.

1)  $(x + 1)^2 + (y + 4)^2 = 25$

7)  $\frac{(x - 1)^2}{1} + \frac{(y - 2)^2}{36} = 1$

2)  $y = 2(x + 1)^2 + 4$

8)  $\frac{(x + 2)^2}{9} - \frac{(y - 5)^2}{1} = 1$

3)  $\frac{x^2}{1} - \frac{(y + 5)^2}{25} = 1$

9)  $(x - 3)^2 + (y - 1)^2 = 4$

4)  $\frac{(x + 5)^2}{25} + \frac{y^2}{1} = 1$

10)  $\frac{(x + 2)^2}{25} + \frac{(y + 4)^2}{36} = 1$

5)  $y = 2(x + 5)^2 - 1$

11)  $\frac{(x + 2)^2}{1} - \frac{(y + 5)^2}{25} = 1$

6)  $(x - 4)^2 + (y + 2)^2 = 4$

12)  $y = 4x^2 + 3$



Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Eccentricity

Identify the eccentricity of each.

1)  $(x + 1)^2 + (y + 4)^2 = 25$

Eccentricity = 0

2)  $y = 2(x + 1)^2 + 4$

Eccentricity = 1

3)  $\frac{x^2}{1} - \frac{(y + 5)^2}{25} = 1$

Eccentricity =  $\sqrt{26}$

4)  $\frac{(x + 5)^2}{25} + \frac{y^2}{1} = 1$

Eccentricity =  $\frac{2\sqrt{6}}{5}$

5)  $y = 2(x + 5)^2 - 1$

Eccentricity = 1

6)  $(x - 4)^2 + (y + 2)^2 = 4$

Eccentricity = 0

7)  $\frac{(x - 1)^2}{1} + \frac{(y - 2)^2}{36} = 1$

Eccentricity =  $\frac{\sqrt{35}}{6}$

8)  $\frac{(x + 2)^2}{9} - \frac{(y - 5)^2}{1} = 1$

Eccentricity =  $\frac{\sqrt{10}}{3}$

9)  $(x - 3)^2 + (y - 1)^2 = 4$

Eccentricity = 0

10)  $\frac{(x + 2)^2}{25} + \frac{(y + 4)^2}{36} = 1$

Eccentricity =  $\frac{\sqrt{11}}{6}$

11)  $\frac{(x + 2)^2}{1} - \frac{(y + 5)^2}{25} = 1$

Eccentricity =  $\sqrt{26}$

12)  $y = 4x^2 + 3$

Eccentricity = 1

