

NAME: \_\_\_\_\_

1. Identify the following curve:  $x^2 = 4 - y^2$

[A] ellipse                      [B] circle  
[C] hyperbola                [D] parabola

2. Identify the following curve:  $100x^2 = 49 + 25y^2$

[A] parabola                      [B] ellipse  
[C] hyperbola                      [D] circle

3. Identify the following curve:  $100x^2 = 121 - 121y^2$

[A] parabola                      [B] hyperbola  
[C] circle                          [D] ellipse

4. Indicate whether the following equation when graphed will be a parabola, circle, ellipse, or hyperbola.

$$x^2 = 16 - y^2$$

[A] parabola                      [B] circle  
[C] ellipse                          [D] hyperbola

5. Indicate whether the following equation when graphed will be a parabola, circle, ellipse, or hyperbola.

$$x = y^2 - 10$$

[A] hyperbola                      [B] parabola  
[C] circle                              [D] ellipse

6. Indicate whether the following equation when graphed will be a parabola, circle, ellipse, or hyperbola.

$$100x^2 = 64 - 144y^2$$

[A] ellipse                          [B] parabola  
[C] hyperbola                      [D] circle

7. Identify the following curve:  $36x^2 = 25 + 49y^2$

8. Identify the following curve:  $x = y^2 + 11$

9. Identify the following curve:  $x^2 = 121 - y^2$

10. Identify the following curve:  $36x^2 = 100 - 100y^2$

- [1] B
- [2] C
- [3] D
- [4] B
- [5] B
- [6] A
- [7] hyperbola
- [8] parabola
- [9] circle
- [10] ellipse