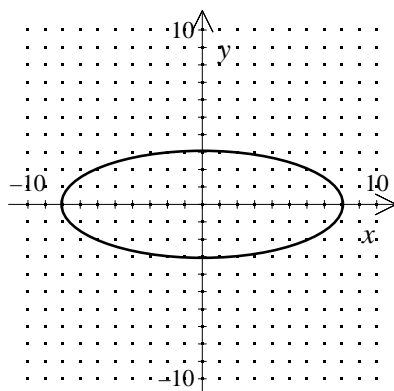


NAME: _____

1. Find the foci of the ellipse.



- [A] $(0, \pm 8.5)$ [B] $(\pm 7.4, 0)$
[C] $(\pm 8.5, 0)$ [D] $(0, \pm 7.4)$

2. Write an equation in standard form for the ellipse with foci $(6, 0)$ and $(-6, 0)$ and y -intercepts of 6 and -6 .

3. Write the equation of two different ellipses that have foci at $(-8, 0)$ and $(8, 0)$.

4. Find the foci of the ellipse with equation $100x^2 + 9y^2 = 900$.

5. Find the foci of the ellipse with equation $9x^2 + 36y^2 = 324$.

- [A] $(\pm 5.2, 0)$ [B] $(0, \pm 5.2)$
[C] $(\pm 6.7, 0)$ [D] $(0, \pm 6.7)$

6. Which is a focus of $\frac{x^2}{64} + \frac{y^2}{49} = 1$?

- [A] $(3.9, 0)$ [B] $(-7, 0)$
[C] $(0, 13)$ [D] $(0, 8)$

7. Compare the quantity in Column A with the quantity in Column B.

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1; \text{ foci are } (-c, 0), (c, 0)$$

Column A Column B

a b

- [A] The quantity in Column A is greater.
[B] The quantity in Column B is greater.
[C] The two quantities are equal.
[D] The relationship cannot be determined on the basis of the information supplied.

[1] B _____

[2] $\frac{x^2}{72} + \frac{y^2}{36} = 1$ _____

Answers may vary. Sample:

[3] $\frac{x^2}{289} + \frac{y^2}{225} = 1$; $\frac{x^2}{100} + \frac{y^2}{36} = 1$ _____

[4] $(0, \pm 9.5)$ _____

[5] A _____

[6] A _____

[7] A _____