

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

1. How is the equation for a circle the same as and different from the equation for an ellipse?

2. Write the equation of an ellipse that has the y-axis as the major axis.

Answers may vary. Sample: Both equations have an  $x^2$  and a  $y^2$  term. In both equations the variable terms are added. In the ellipse, the  $x^2$  and  $y^2$  terms have different coefficients.

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[2] Answers may vary. Sample:  $\frac{x^2}{9} + \frac{y^2}{25} = 1$

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