

Graph the ellipse and identify the center, vertices, and foci.

1. $\frac{x^2}{16} + \frac{y^2}{4} = 1$

$a=4$ $b=2$
 $c^2 = 16 - 4 = 12$ $c = 2\sqrt{3}$



Center: (0,0)
Vert: (4,0); (-4,0)
CV: (0,2); (0,-2)
Foci: (2√3,0); (-2√3,0)

2. $\frac{x^2}{9} + \frac{y^2}{36} = 1$

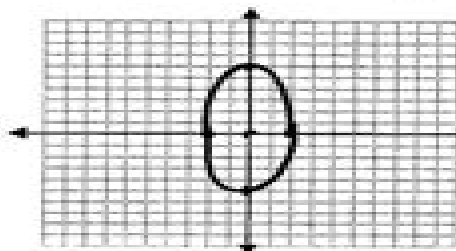
$a=6$ $b=3$ $c^2 = 36 - 9 = 27$
 $c = 3\sqrt{3}$



Center: (0,0)
Vert: (0,6); (0,-6)
CV: (3,0); (-3,0)
Foci: (0,3√3); (0,-3√3)

3. $25x^2 + 4y^2 = 100$

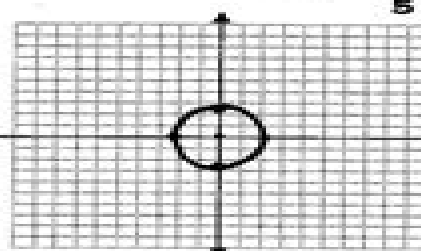
$\frac{x^2}{4} + \frac{y^2}{25} = 1$ $a=5$ $b=2$
 $c^2 = 25 - 4 = 21$ $c = \pm\sqrt{21}$



Center: (0,0)
Vert: (0,5); (0,-5)
CV: (2,0); (-2,0)
Foci: (0,√21); (0,-√21)

4. $7x^2 = 35 - 5y^2$

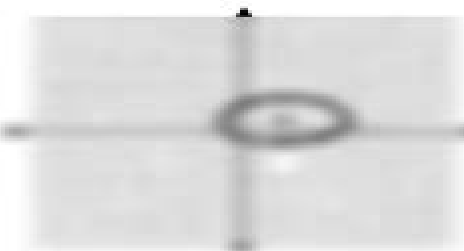
$7x^2 + 5y^2 = 35$ $a=\sqrt{7}$ $b=\sqrt{5}$
 $\frac{x^2}{5} + \frac{y^2}{7} = 1$ $c^2 = 7 - 5 = 2$ $c = \pm\sqrt{2}$



Center: (0,0)
Vert: (0,√7); (0,-√7)
CV: (√5,0); (-√5,0)
Foci: (0,√2); (0,-√2)

5. $\frac{(x-2)^2}{9} + \frac{(y-1)^2}{4} = 1$

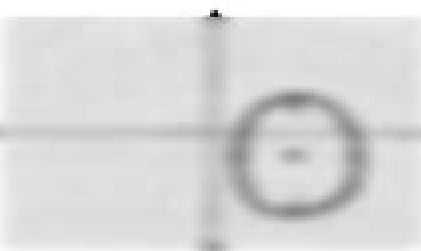
center (2,1) $a=3$ $b=2$ $c=\sqrt{5}$



Center: (2,1)
Vert: (5,1); (-1,1)
CV: (2,3); (2,-1)
Foci: (2+√5,1); (2-√5,1)

6. $\frac{(x-4)^2}{9} + \frac{(y+2)^2}{25} = 1$

$a=5$ $b=3$ $c=4$



Center: (4,-2)
Vert: (4,3); (4,-7)
CV: (7,-2); (1,-2)
Foci: (4,3); (4,-7)

Algebra 2 Graphing Ellipses Answers

**McDougal Littell Incorporated, Ron
Larson**



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Intermediate Algebra for College Students Robert Blitzer, 2006 Sequences series and the binomial theorem

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Algebra 2 McDougal Littell Incorporated, Ron Larson, 2004

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