

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. $25x^2 + 4y^2 = 100$ $\frac{x^2}{4} + \frac{y^2}{25} = 1$

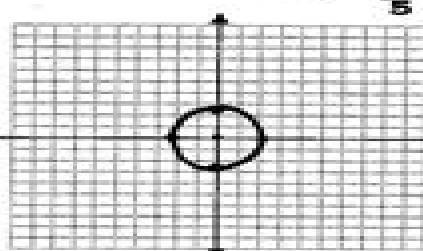
$a=5$ $b=2$
 $c^2 = 25 - 4 = 21$
 $c = \pm\sqrt{21}$



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

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

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



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

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

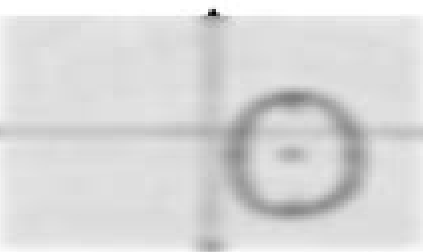
center (2, 1)
 $a=3$ $b=2$ $c = \sqrt{5}$



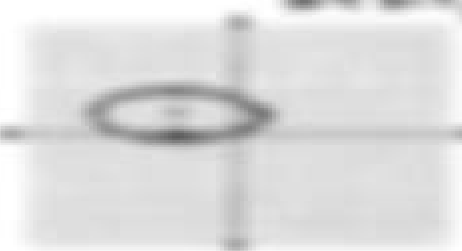
Center: (2, 1)
Vert: (5, 1); (-1, 1)
CV: (2, 3); (2, -1)
Foci: (2 + √5, 1); (2 - √5, 1)

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

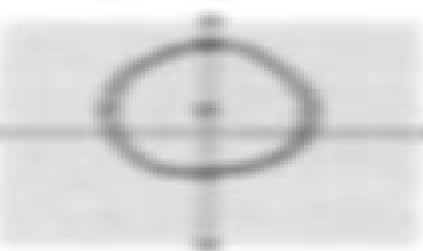
$a=5$ $b=3$ $c=4$



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



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



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

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