

Example:

1. For the following ellipse, find the following

- | | |
|-------------------|-----------------------------|
| a. Principal axis | e. Focus |
| b. Center | f. Length of the major axis |
| c. Vertices | g. Length of the minor axis |
| d. Co-vertices | h. Sketch the graph |

1.

$$\frac{(x-3)^2}{9} + \frac{(y+2)^2}{4} = 1$$

The equation can also be written as

$$\frac{(x-3)^2}{3^2} + \frac{(y-(-2))^2}{2^2} = 1$$

a. Since $h \neq k$, then the principal axis is $a \neq b$

b. $(3, -2)$ since $h = 3$ and $k = -2$

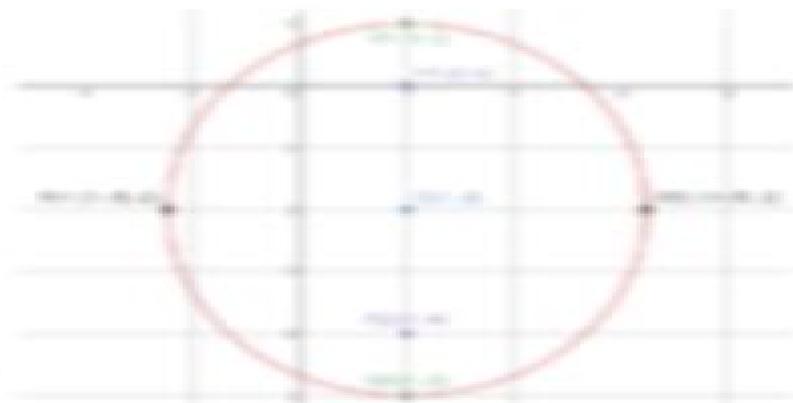
c. $a^2 = 9$
 $a = \sqrt{9}$
 $a = 3$
 $V_1(h, k+a)$ and $V_2(h, k-a)$
 $V_1(3, 1)$ and $V_2(3, -5)$

d. $b^2 = 4$
 $b = \sqrt{4}$
 $b = 2$
 $W_1(h-b, k)$ and $W_2(h+b, k)$
 $W_1(1, -2)$ and $W_2(5, -2)$

e. $c = \sqrt{a^2 - b^2}$
 $c = \sqrt{9 - 4}$
 $c = \sqrt{5}$
 $c = 2.236$
 $F_1(h, k+c)$ and $F_2(h, k-c)$
 $F_1(3, 0.236)$ and $F_2(3, -4.236)$

f. $2a = 2(3)$
 $= 6$ units

g. $2b = 2(\sqrt{4})$
 $= 2(\sqrt{4})$ units



Analytic Geometry Ellipse Problems With Solution

American International College



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