1. Find the coordinates of the Vertex and Focus and the equation of the Directrix.

 $y = -9(x+7)^2 - 2$

2. Write the equation of this function: Foci are (5,2) and (5,-24) and a Vertex is (5,-5).

EQ:

3. $\sqrt{5}$ percent of $5\sqrt{5}$ =

A. 0.05

B. 0.25

C. 0.5

D. 2.5

E. 25

4. The distance from town A to town B is five miles. C is six miles from B. Which of the following could be the distance from A to C?

I11II 1

III 7

A. I only

B. II only

C. I and II only

D. II and III only

E. I, II, or III.

5. If pqr = 1, rst = 0, and spr = 0, which of the following must be zero?

A. *p*

B. q

C.r

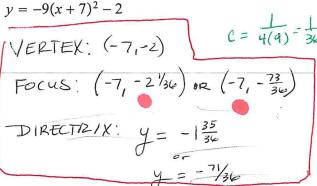
D. s

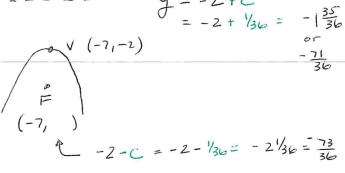
E. *t*

Alg 2B Friday, December 8, 2017 Bellwork

Answers

1. Find the coordinates of the Vertex and Focus and the equation of the Directrix.





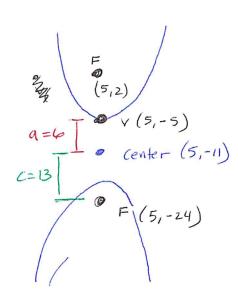
2. Write the equation of this function: Foci are (5,2) and (5,-24) and a Vertex is (5,-5).

EQ:
$$\frac{(y+11)^{2}}{36} - \frac{(x-5)^{2}}{133} = 1$$

$$c^2 = a^2 + b^2$$
 $169 = 36 + b^2$
 $b^2 = 133$

3.
$$\sqrt{5}$$
 percent of $5\sqrt{5}$ = A. 0.05 (B. 0.25) C. 0.5 D. 2.5

$$\frac{\sqrt{5}}{100} = \frac{\chi}{5.6} \qquad \chi = .25$$



4. The distance from town A to town B is five miles. C is six miles from B. Which of the following could be the distance from A to C?

I11II 1III 7

A. I only

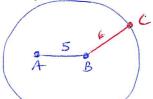
B. II only

C. I and II only

D. II and III only

E. *I*, *II*, or *III*.

circle



closest Coan be to A

c is any point on this

FARTHEIST C can be from A is 11mi IT could also be anything between

5. If pqr = 1, rst = 0, and spr = 0, which of the following must be zero? E. *t* B. qA. p C. r



sort = 0 but you don't know which one