## Answer on Question \#57226 - Math - Calculus

The vertices for the hyperbola
$(x-1)^{\wedge} 2(y+3)^{\wedge} 2$
--------- - --------- = 1 are (1,0) and (1,-6)
25 9
A: True
B: False

## Solution

Vertices of hyperbola must satisfy the equation but the points ( 1,0 ) and ( $1,-6$ ) does not satisfy the equation $\frac{(x-1)^{2}}{25}-\frac{(y+3)^{2}}{9}=1$ :

$$
\begin{aligned}
& \frac{(1-1)^{2}}{25}-\frac{(-6+3)^{2}}{9}=-1 \neq 1 \\
& \frac{(1-1)^{2}}{25}-\frac{(0+3)^{2}}{9}=-1 \neq 1
\end{aligned}
$$

Answer: B. False.

