

## Answer on Question #57224 – Math – Calculus

What is the length of the transverse axis?

$$\frac{(x - 2)^2}{36} - \frac{(y + 1)^2}{64} = 1$$

### Solution

So as the length of the transverse axis of a hyperbola coincides with the major axis and semi-major axis of the given hyperbola

$$\frac{(x - 2)^2}{6^2} - \frac{(y + 1)^2}{8^2} = 1$$

is equal to  $a = 6$ , then the length of the transverse axis is  $2a = 12$ .

**Answer: 12.**

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