The vertices of a triangle PBJ are P(1, 2), B(4, 6), and J(-4, 12). Which of the following statements about triangle PBJ must be true?

a. Triangle PBJ is a right triangle with the right angle at P.
b. Triangle PBJ is a right triangle with the right angle at B.
c. Triangle PBJ is a right triangle with the right angle at J.
d. Triangle PBJ is not a right triangle.

Answer: d

Justify your answer.

I say d because if it were a right triangle the one of the values of \( P \neq B \) would be negative opposites of each other.
The vertices of a triangle PBJ are $P(1, 2)$, $B(4, 6)$, and $J(-4, 12)$. Which of the following statements about triangle PBJ must be true?

a. Triangle PBJ is a right triangle with the right angle at P.
b. Triangle PBJ is a right triangle with the right angle at B.
c. Triangle PBJ is a right triangle with the right angle at J.
d. Triangle PBJ is not a right triangle.

Answer: **B**

Justify your answer.

(B) can be a right triangle because just by looking at the diagram and knowing my triangles, B is a right triangle.
The vertices of a triangle PBJ are P(1, 2), B(4, 6), and J(-4, 12). Which of the following statements about triangle PBJ must be true?

a. Triangle PBJ is a right triangle with the right angle at P.
b. Triangle PBJ is a right triangle with the right angle at B.
c. Triangle PBJ is a right triangle with the right angle at J.
d. Triangle PBJ is not a right triangle.

Answer: [Diagram shows possible right angles at P, B, and J.]

Justify your answer. [Diagram shows distances between points and calculations: 
\[a^2 + b^2 = c^2\]}

What's true about right triangles? Need distance/length \(\overline{JP}\), and \(\overline{PB}\), and \(\overline{BJ}\).
The vertices of a triangle PBJ are P(1, 2), B(4, 6), and J(-4, 12). Which of the following statements about triangle PBJ must be true?

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d. Triangle PBJ is not a right triangle.

Answer: B

Justify your answer.

\[
\begin{align*}
\frac{6-2}{4-1} &= \frac{4}{3} \\
\frac{12-6}{-4-4} &= \frac{6}{-8} = -\frac{3}{4}
\end{align*}
\]
Grade 10
Constructed Response for Fall 2010

The vertices of a triangle PBJ are P(1, 2), B(4, 6), and J(-4, 12). Which of the following statements about triangle PBJ must be true?

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d. Triangle PBJ is not a right triangle.

Answer: **B**

Justify your answer.
The vertices of a triangle PBJ are P(1, 2), B(4, 6), and J(-4, 12). Which of the following statements about triangle PBJ must be true?

a. Triangle PBJ is a right triangle with the right angle at P.
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c. Triangle PBJ is a right triangle with the right angle at J.
d. Triangle PBJ is not a right triangle.

Answer: A

Justify your answer.

The reason I said it was a right triangle with the right angle at P is because, when I graphed it out, it looks as if it were a right triangle. And the angle is at P.

Yes I think you can start a sentence with and.