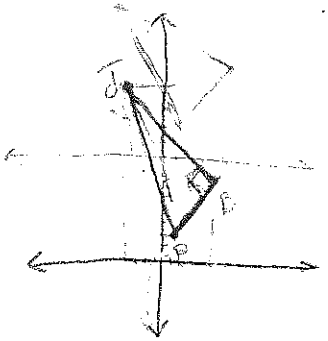
A

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?

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 ≠ B would be negitive opposites of each other.

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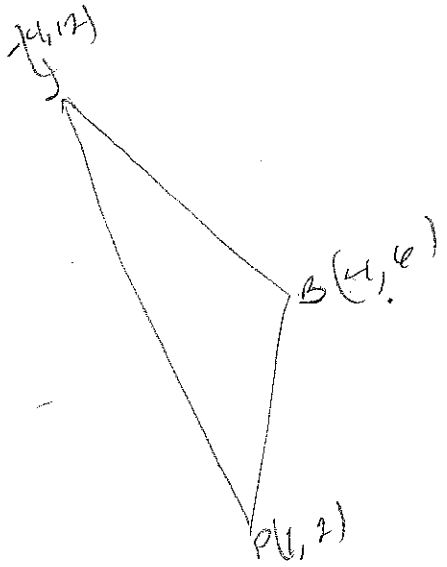
c. Triangle PBJ is a right triangle with the right angle at J.
d. Triangle PBJ is not a right triangle.

Answer: B

Justify your answer.



(B) can be a right triangle because just by looking and knowing my angles. B. is right triangle.

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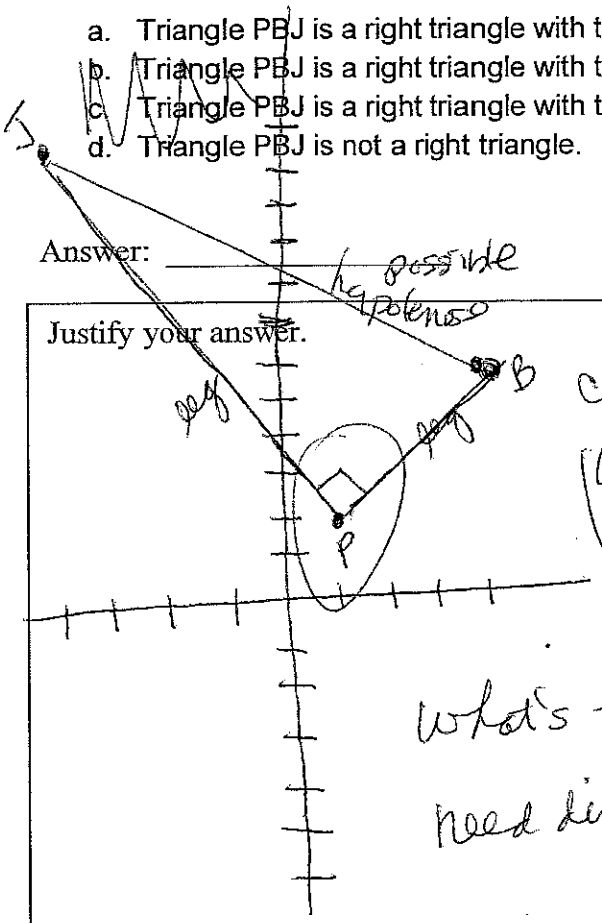
d. Triangle PBJ is not a right triangle.

Answer: _____

Justify your answer.



can't be b or c
(a or d according to sketch

What's true about right triangles?
$a^2+b^2=c^2$
need distance/length $\overline{JP}$
and $\overline{PB}$
and $\overline{BJ}$

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Answer: B

Justify your answer.

$\frac{B\ P}{\frac{6-2}{4-1}} = \frac{4}{3}$ $\qquad$ $\frac{J\ B}{\frac{12-6}{-4-4}} = \frac{6}{-8} = \frac{-3}{4}$

E

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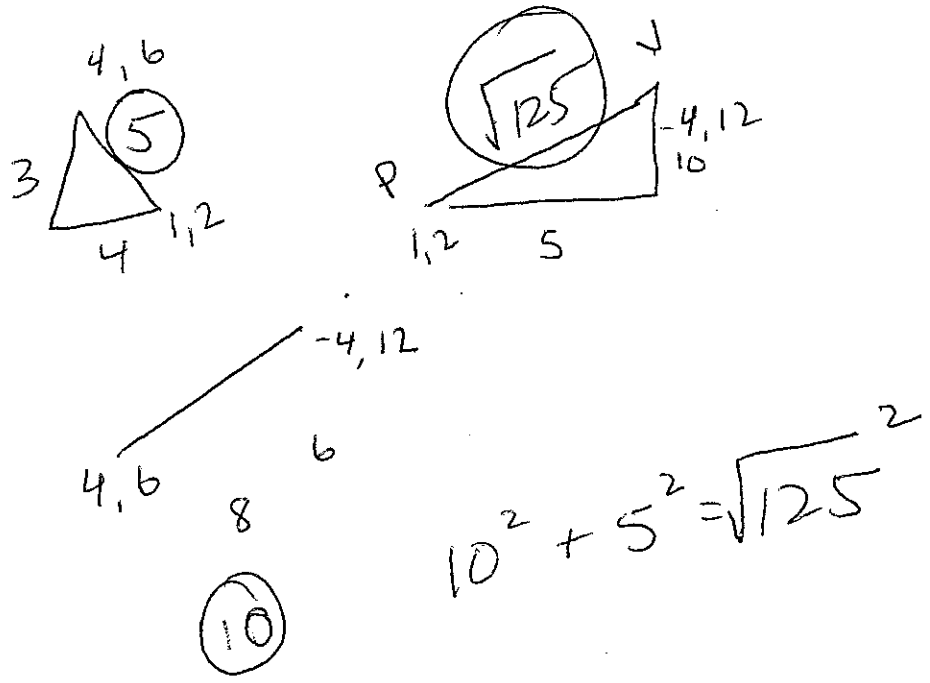
c. Triangle PBJ is a right triangle with the right angle at J.
d. Triangle PBJ is not a right triangle.

Answer: B

Justify your answer.



F

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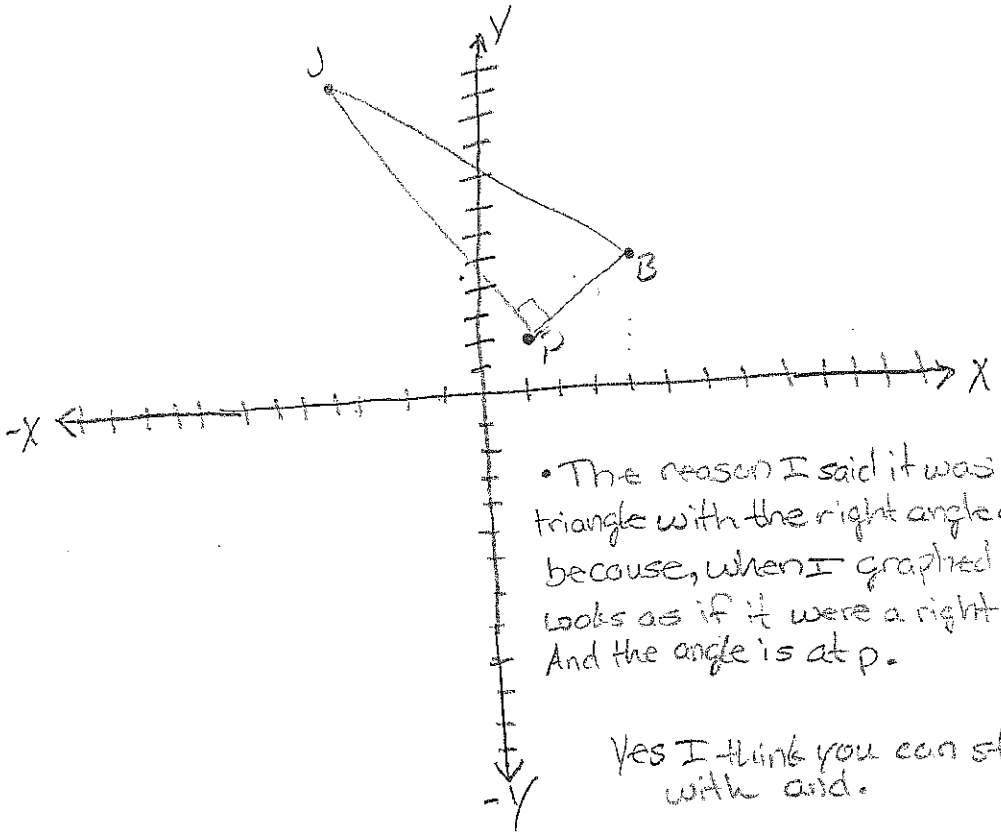
c. Triangle PBJ is a right triangle with the right angle at J.
d. Triangle PBJ is not a right triangle.

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 looks as if it were a right triangle. And the angle is at P.

Yes I think you can start a sentence with and.