

Application Problem

- Ex.** Consider the triangle formed by the points $A(1, 2)$, $B(2, 5)$, and $C(4, 1)$.
- a Use the distance formula to classify the triangle as equilateral, isosceles, or scalene.
 - b Determine whether the triangle is right angled.

$$\begin{aligned} \text{a) } \underline{AB} &= \sqrt{(2-1)^2 + (5-2)^2} = \sqrt{1^2 + 3^2} = \underline{\underline{\sqrt{10}}} \\ \underline{BC} &= \sqrt{(4-2)^2 + (1-5)^2} = \sqrt{2^2 + (-4)^2} = \underline{\sqrt{20}} = 2\sqrt{5} \\ \underline{AC} &= \sqrt{(4-1)^2 + (1-2)^2} = \sqrt{3^2 + (-1)^2} = \underline{\underline{\sqrt{10}}} \quad \boxed{\text{isosceles}} \end{aligned}$$

$$\begin{aligned} \text{b) } a^2 + b^2 &= c^2 \\ \checkmark \quad &= (\sqrt{20})^2 \end{aligned}$$



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American Mathematical Society

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