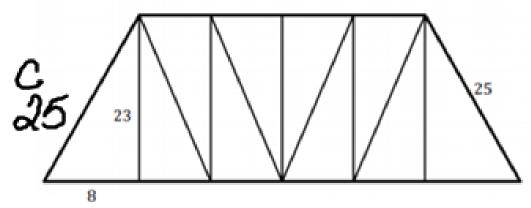
Mr. Chris designed a Pratt Truss bridge with a structure that slanted towards the center of the bridge. In order to be a Pratt Truss bridge, the bridge has to contain right triangles in its design. However, his design was rejected by the construction firm. The firm said that Mr. Chris's design failed to meet the Pratt Truss requirements.



 Consider the above representation of the bridge Mr. Chris designed. Prove that the construction firm was correct in its rejection of Mr. Chris's design.

$$8^2 + 23^2 \stackrel{?}{=} 25^2$$

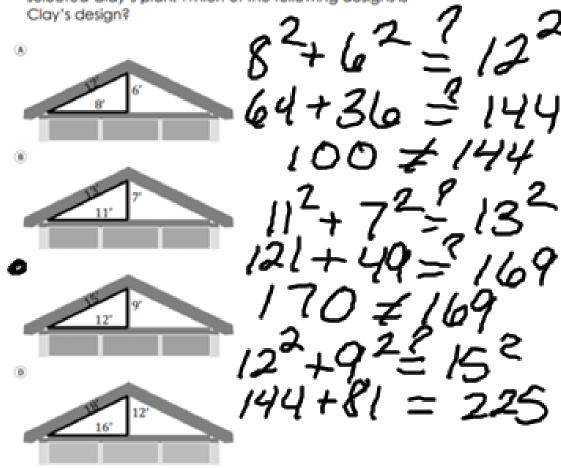
 $64 + 529 \stackrel{?}{=} 625$

What options does Mr. Chris have to fix the design?
 Justify your answer.

Using the triple 7,24,25

*5*93 *≿ 625*

Clay designs roofs that form 2 congruent right triangles. His
designs are flawless. He submitted his latest design to a
firm along with three other contractors, and the firm
selected Clay's plan. Which of the following designs is



Using the Pythagorean Theorem, how can you tell if the triangle is acute or obtuse?

If $\frac{a^2+b^2=c^2}{b^2+b^2+c^2}$, then the triangle is a Sight triangle.

If $\frac{a^2+b^2+c^2}{b^2+c^2}$, then the triangle is an Obtust triangle.

Let's Practice

Classify the triangle by the angle degree; right, acute, or obtuse.

4,5,7
$$4^{2}+5^{2}$$
 7^{2} $41 < 49$
 $10 + 25$ 49 $9,10,12$ $9^{2}+10^{2}$ 12^{2} $181 > 144$
 $12,16,20$ $81 + 100$ 144 144 $13^{2}+16^{2}$ $144+256$ $144+256$ 1400 1400 1400 $144+256$ 1400 1400