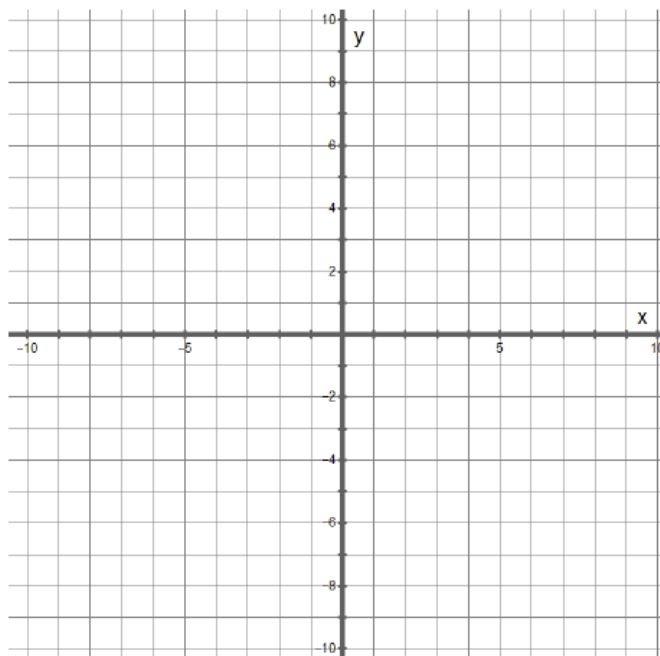


POW 19 Week 19

22. $\triangle ABC$ has vertices $A(-6, -1)$, $B(-1, -1)$, and $C(-5, -4)$. If $\triangle ABC$ is reflected over the line $y = -\frac{1}{2}x + 1$ to form $\triangle A'B'C'$, find the sum $CB' + AC'$.

- (A) $5 + \sqrt{10}$
(B) $\sqrt{74} + \sqrt{178}$
(C) $7\sqrt{2} + \sqrt{85}$
(D) 29
(E) $\sqrt{85} + \sqrt{130}$

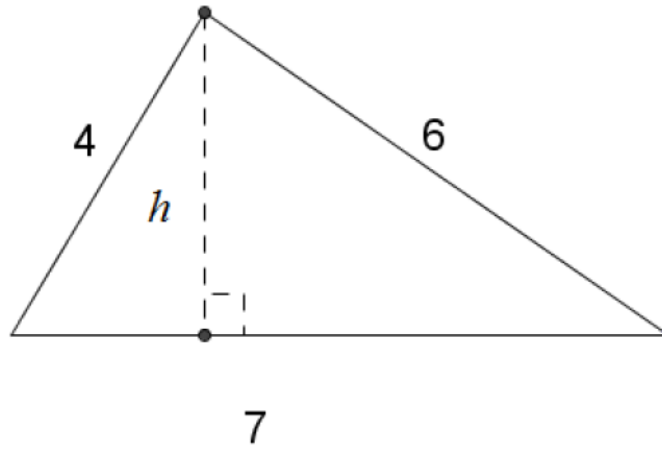


You have to show the details of your work not just the answer.

Project on Area of a triangle Wk 19:

adapted from Pre-calc. UH math contest 2015

22. Give the value h shown below.



- a) Evaluate the value of side h .
- b) Evaluate the area of the small triangle
- c) Evaluate percent of the area represented by the small triangle.
- d) What is the probability that if you throw a dart it will land triangle which has the hypotenuse of 6?

Hint: Use one of your downloads from Wk 18. (Heron's formula)

Due Saturday 1/14/2017 @ 11:59pm.