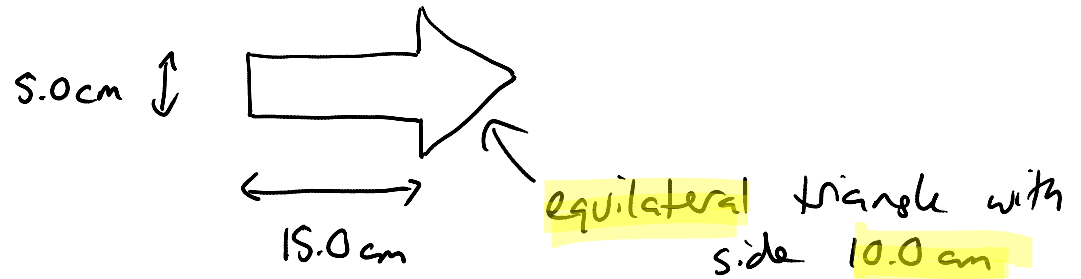


## Section 4.3: cont'd

Monday, November 10, 2014  
8:42 AM

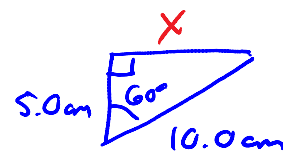
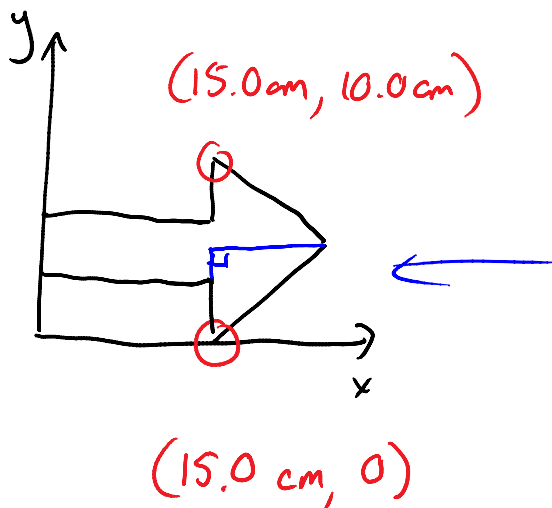
Consider the following diagram representing a street sign:



The sign is made from one rectangle and one triangle.

Putting this sign into a coordinate system, state the coordinates of the vertices of the triangle.

points/corner



$$\sin 60^\circ = \frac{\text{opp}}{\text{hyp}} = \frac{X}{10}$$

$$\begin{aligned} X &= 10 \sin 60^\circ \\ &\approx 8.66 \text{ cm} \\ &\approx 8.7 \text{ cm} \end{aligned}$$

So coordinates  
of remaining  
vertex are:

(23.7 cm, 5.0 cm)