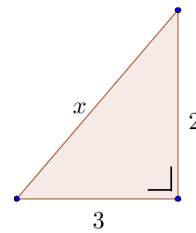
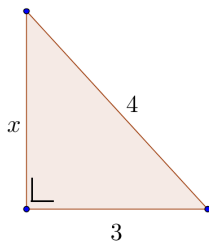
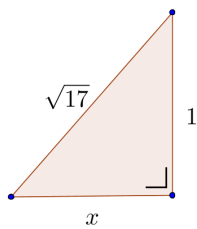
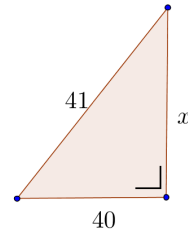
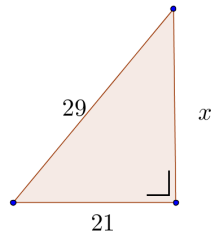
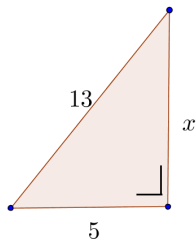


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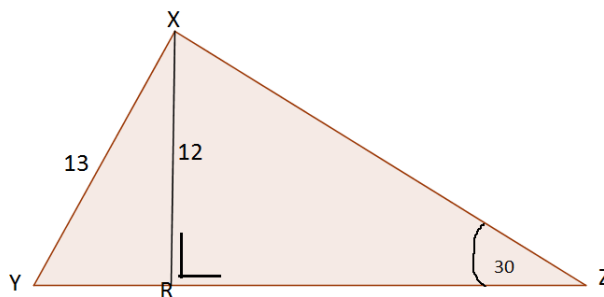
September 19, 2013

1 SECTION TITLE HERE

1. Use Pythagoras' theorem to find x , the length of the missing side, in surd form where necessary.

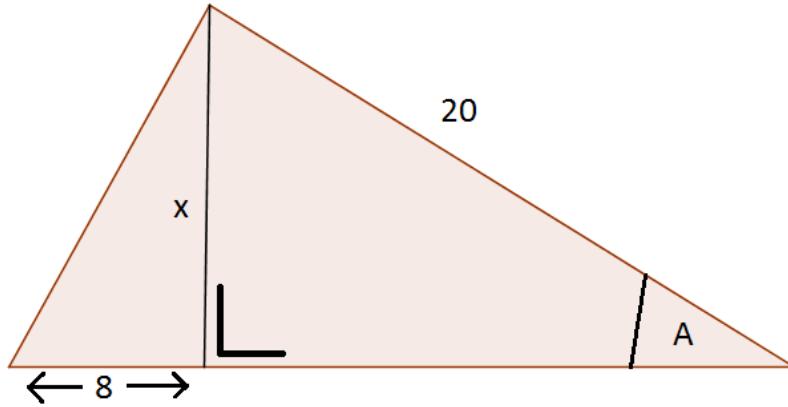


2. Find the perimeter of the triangle XYZ in the form $a + b\sqrt{c}$, where a, b, and c are integers.



3. In the given triangle, find

- i. x correct to one decimal place
- ii. the angle A correct to the nearest degree.



4. In the given triangle, RT is perpendicular to PQ . $|PR| = \sqrt{8}$, angle $|RPT| = 30^\circ$, and angle $|RQT| = 45^\circ$. Express in its simplest surd form
 - i. $|RT|$
 - ii. $|PT|$

Hence find the area of the RPQ triangle, giving your answer in the form $a + \sqrt{b}$, where $a, b \in \mathbb{N}$

5.

