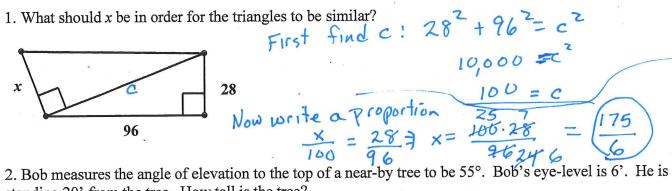
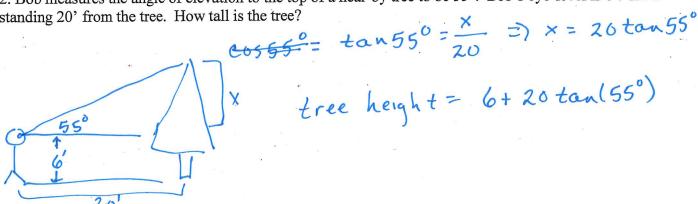
## Solution

## More similar triangles practice

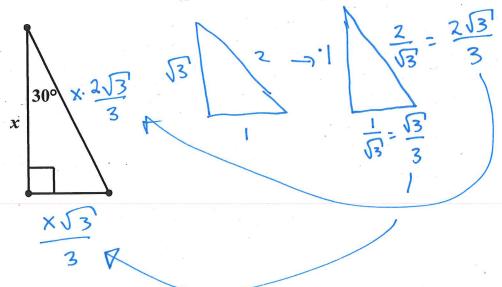
1. What should x be in order for the triangles to be similar?



standing 20' from the tree. How tall is the tree?



3. Find a formula in x for the perimeter of the triangle



$$P = x + x \frac{\sqrt{3}}{3} + x \cdot 2\sqrt{3}$$

$$= x + x \left( \frac{\sqrt{3} + 2\sqrt{3}}{3} \right) = x + x \left( \frac{\sqrt{3}\sqrt{3}}{2} \right) = x + x \sqrt{3}$$
or  $x \in \mathbb{R}$