

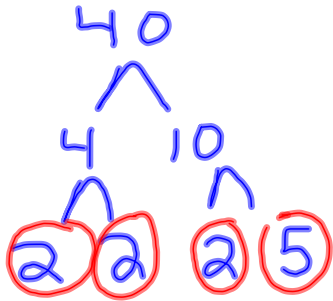
3-11-14

1st Geo

Simplifying radicals

$$\sqrt{40} = \sqrt{2 \cdot 2 \cdot 2 \cdot 5}$$

$2\sqrt{10}$



$$\textcircled{2} \quad \sqrt{2 \cdot 3 \cdot 3 \cdot 5 \cdot 5 \cdot 7}$$

$$3 \cdot 5 \sqrt{2 \cdot 7}$$

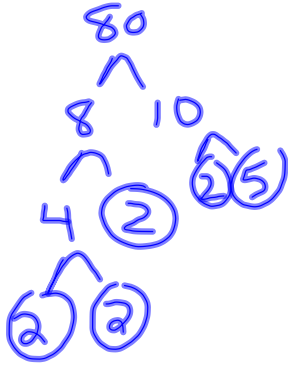
$$15 \sqrt{14}$$

$$\textcircled{3} \quad \sqrt{2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5}$$

$$2 \cdot 3 \sqrt{2 \cdot 5}$$

$$6 \sqrt{10}$$

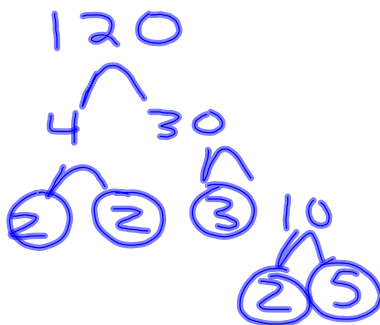
$$\textcircled{4} \quad \sqrt{80} = \sqrt{2 \cdot 2 \cdot 2 \cdot 2 \cdot 5}$$



$$2 \cdot 2 \sqrt{5}$$

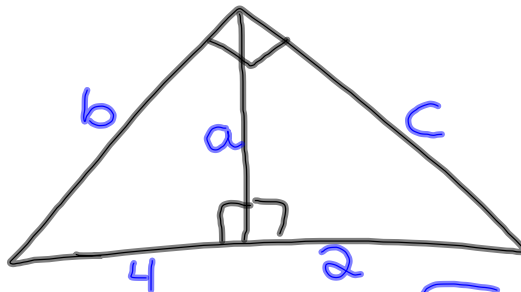
$$4\sqrt{5}$$

$$\textcircled{5} \quad \sqrt{120}$$



$$\sqrt{2 \cdot 2 \cdot 2 \cdot 3 \cdot 5}$$

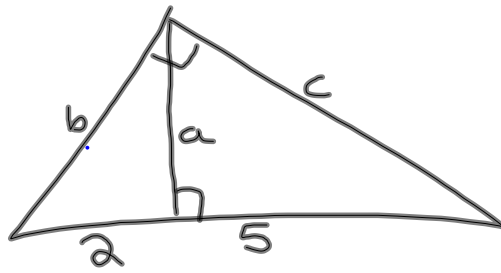
$$2\sqrt{30}$$



$$a = \sqrt{4 \cdot 2} = \sqrt{8} = 2\sqrt{2}$$

$$b = \sqrt{4 \cdot 6} = \sqrt{24} = 2\sqrt{6}$$

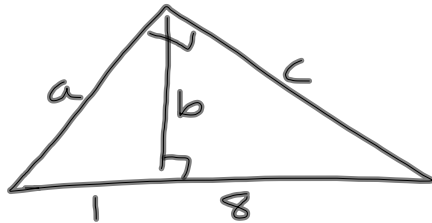
$$c = \sqrt{2 \cdot 6} = \sqrt{12} = 2\sqrt{3}$$



$$a = \sqrt{2 \cdot 5} = \sqrt{10}$$

$$b = \sqrt{2 \cdot 7} = \sqrt{14}$$

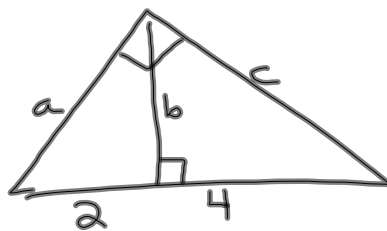
$$c = \sqrt{5 \cdot 7} = \sqrt{35}$$



$$a = \sqrt{1 \cdot 9} = \sqrt{9} = 3$$

$$b = \sqrt{1 \cdot 8} = \sqrt{8} = 2\sqrt{2}$$

$$c = \sqrt{8 \cdot 9} = \sqrt{72} = \frac{2 \cdot 3 \sqrt{2}}{6\sqrt{2}} = 6\sqrt{2}$$



$$a = \sqrt{2 \cdot 6} = \sqrt{12} = 2\sqrt{3}$$

$$b = \sqrt{2 \cdot 4} = \sqrt{8} = 2\sqrt{2}$$

$$c = \sqrt{4 \cdot 6} = \sqrt{24} = 2\sqrt{6}$$