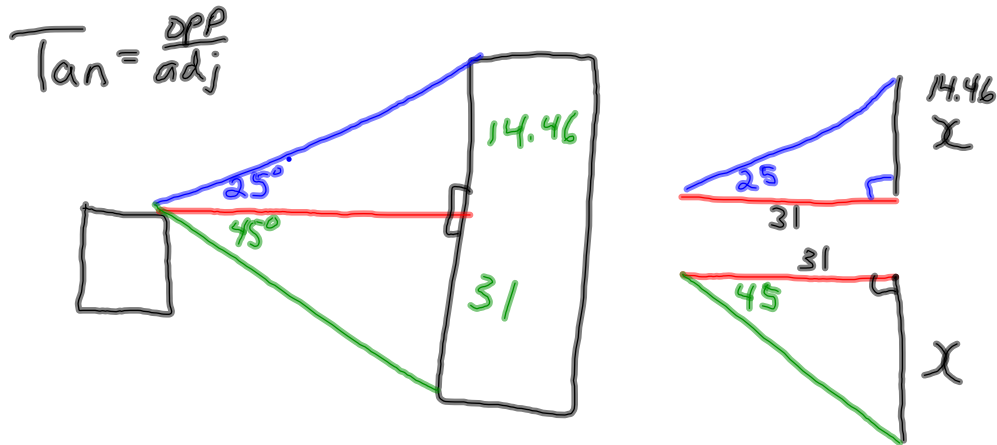


Sally stands on the roof of a building. She looks up at a second building forming an angle of elevation of 25° . She then looks down at the base of the second building forming an angle of depression of 45° . If the buildings are 31 m apart, how tall is each building?



Sep 28-1:11 PM

$$\text{Tan } 25 = \frac{x}{31}$$

$$x = \text{Tan } 25 \times 31$$

$$x = 14.46$$

$$\text{Tan } 45 = \frac{x}{31}$$

$$x = \text{Tan } 45 \times 31$$

$$x = 31$$

2nd building is 45.46

Jan 26-1:08 PM

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Mar 3-1:57 PM