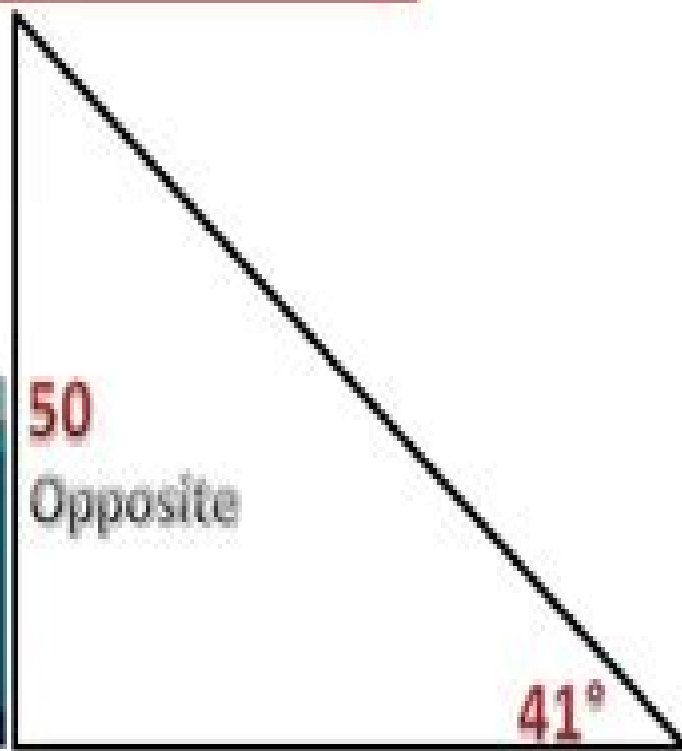


Applications of Trigonometry

3. A building is 50 feet high. At a distance away from the building, an observer notices that the angle of elevation to the top of the building is 41° . To the nearest foot **how far is the observer from the base of the building?** *Round your answer to the nearest foot.*



$$\tan 41 = \frac{50}{x}$$

$$x(\tan 41) = 50$$

$$x = \frac{50}{\tan 41}$$

$$x = 58$$

X
Adjacent

The observer is 58 feet from the base of the building.

Applications Of Trigonometry

Camilla Rothe



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