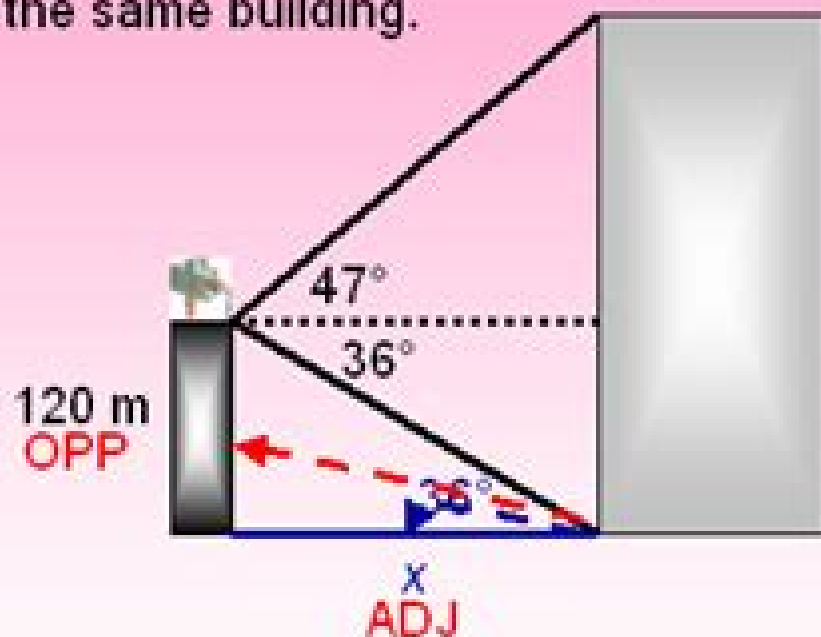


TRIGONOMETRIC RATIOS: WORD PROBLEMS

EXAMPLE 3

A video camera is mounted on the top of a 120 m tall building. When the camera tilts down, it views the bottom of another building, with an *angle of depression* of 36° . If it tilts up 47° with the horizontal, it can view the top of the same building.



(a) How far apart are the two buildings? (to the nearest metre)

Let x represent the distance between the two buildings

$$\tan 36^\circ = \frac{OPP}{ADJ}$$

$$\tan 36^\circ = \frac{120}{x}$$

$$x \tan 36^\circ = \cancel{x} \left(\frac{120}{\cancel{x}} \right)$$

$$\frac{x \cancel{\tan 36^\circ}}{\cancel{\tan 36^\circ}} = \frac{120}{\tan 36^\circ}$$

$$x = \frac{120}{\tan 36^\circ}$$

$$x = \frac{120}{0.7265}$$

$$x = 165$$

The buildings are **165 metres** apart

Problem Solving 8 2 Trigonometric Ratios

**Frederick L. Dillon, W. Gary
Martin, Basil M. Conway IV, Marilyn E.
Strutchens**

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