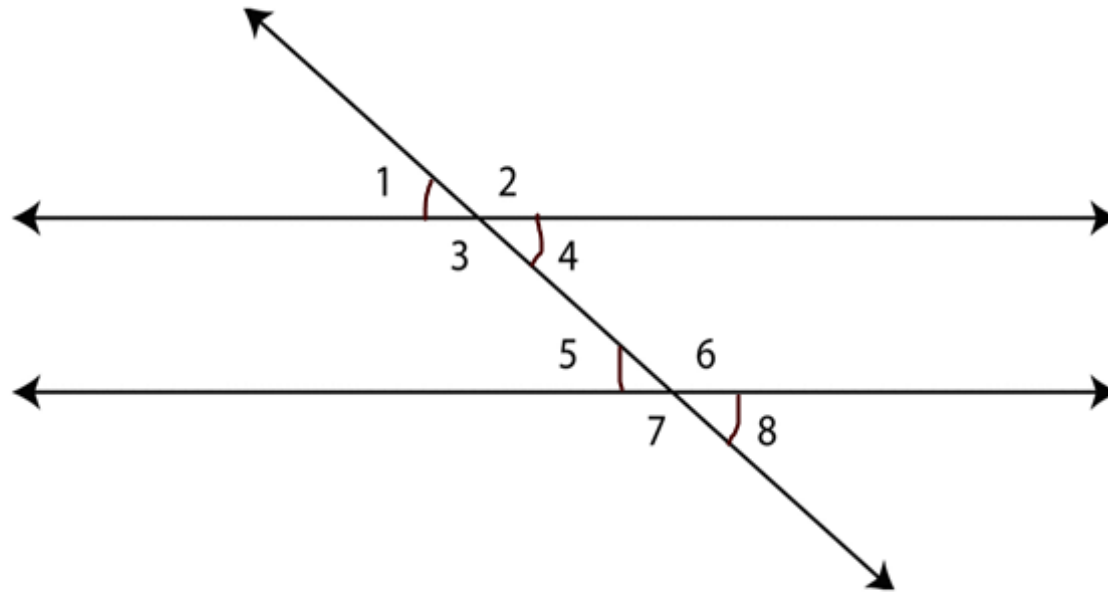
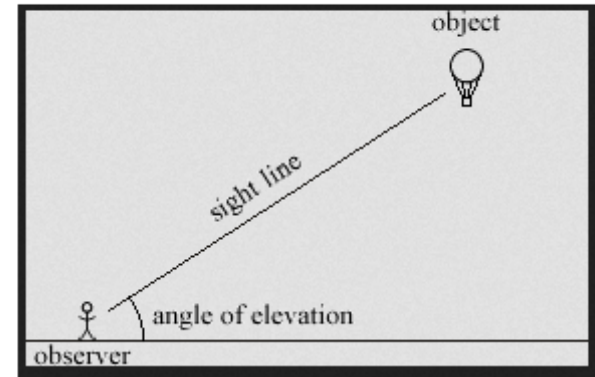


More 9.1

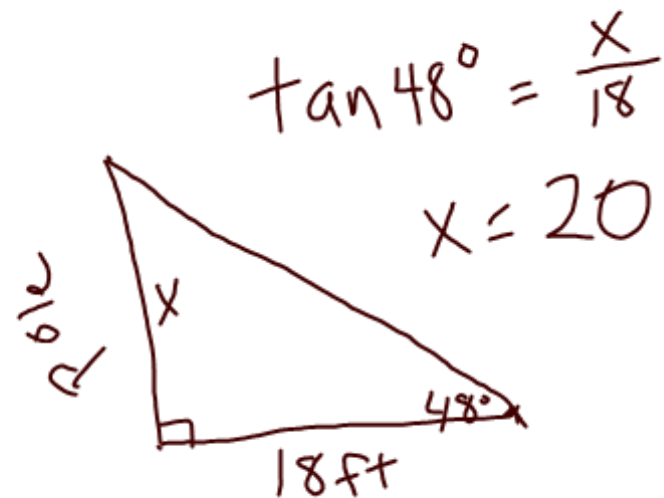
Remember from Geometry



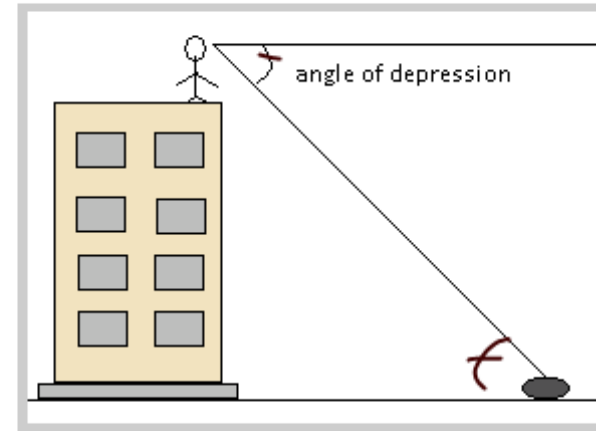
Angle of Elevation: Angle by which an observer's line of sight must be elevated from the horizontal to the point observed.



Example: The angle of elevation to the top of a pole is 48° from a point on the ground 18 ft away from the pole's base. Find the height of the pole.



Angle of Depression: Angle by which an observer's line of sight must be depressed from the horizontal to the point observed.



Example: From the top of a 40m high vertical cliff, the angle of depression of a boat is 34° . How far is the boat from the base of the cliff?

$$\tan 34^\circ = \frac{40}{x}$$

$$x = \frac{40}{\tan 34^\circ}$$

$$x = 59.3$$



A#11

PG 335

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