

92 Geometry Chapter 7 Resource Book

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Let  $\angle A$  be an acute angle in a right triangle. Approximate the measure of  $\angle A$  to the nearest tenth of a degree.

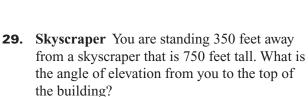
19.	$\sin A = 0.45$	20.	$\tan A = 0.9$	21.	$\sin A = 0.76$	22.	$\cos A = 0.32$
23.	$\tan A = 5.2$	24.	$\cos A = 0.24$	25.	$\sin A = 0.15$	26.	$\cos A = 0.66$

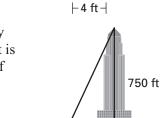
**27.** Multiple Choice Using the diagram to the right, for what value of x does  $\sin A = \cos A$ ?

Α.	30°	В.	45°
C.	60°	D.	none



**28.** Ladder You lean a 20 foot ladder against a wall. The base of the ladder is 4 feet from the wall. What angle  $\theta$  does the ladder make with the ground?





350 ft

20

**30.** Concert You attend a music concert with some friends and sit halfway up the bleachers in the

arena. The angle of depression from your horizontal line of sight to the stage is 24°. If your seat is 45 feet above stage level,

Round to the nearest foot.

what is your actual distance *d* from the stage?

