(PART 2) RIGHT TRIANGLE APPLICATIONS

OBJECTIVES: 1) Solve a right triangle application problem.

2) Express lengths and areas using trigonometric functions.

RIGHT TRIANGLE APPLICATIONS

1) The angle of elevation to the top of a building at point A is 50°. At point B which is 100 ft further away from the building than point A, the angle of elevation to the top of the building is 42°. Find the height of the building in feet.



2) Find a, b, c, and d in terms of θ .



$$a = \sin \theta$$

$$d = \cos \theta$$

$$tan \theta = \frac{b}{1}$$

$$b = tan \theta$$

$$\cos \theta = \frac{1}{c}$$

$$c = \frac{1}{\cos \theta} = \sec \theta$$

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10.1 Notes



