

Example 3:

Owen is supervising the installation of an escalator at a new office building. The escalator will make an angle of 30° with the ground and will rise a vertical distance of 20 ft.

a) What is the length of the escalator?

b) Suppose the escalator travels at a rate of 100 ft per minute. How long will it take to travel from the lower floor to the upper floor?

SOH ~~CAH~~ ~~TOA~~

$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\sin 30^\circ = \frac{20 \text{ ft}}{x}$$

$$(\sin 30^\circ)x = 20 \text{ ft}$$

$$x = \frac{20 \text{ ft}}{\sin(30^\circ)}$$

$$x = \frac{20 \text{ ft}}{(0.5)}$$

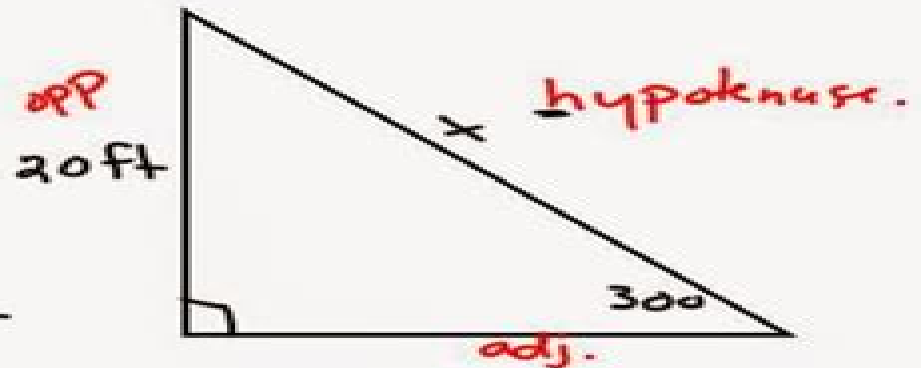
$$x = 40 \text{ ft}$$

\therefore The escalator is 40 ft. long

$$\text{b) } \frac{100 \text{ ft}}{1 \text{ min}} = \frac{40 \text{ ft}}{x}$$

$$x = \frac{40 \times 1}{100}$$

$$x = 0.4 \text{ minutes}$$



Math 10 Trig Word Problems Kuta

Rebecca Wingard-Nelson

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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