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18.2 Sine and Cosine Ratios

18.2



*You can use a calculator to approximate the sine, cosine, and the tangent. Make sure that your calculator is in degree mode. The table shows values of each function.





Suppose a new regulation states that the maximum angle of a ramp for wheelchairs is 9°. At least how long must the new ramp be? Round to the nearest tenth of a foot.















7 Find the unknown length x in the right triangle, to the nearest tenth.



$$\sin P = \frac{QR}{PQ} \qquad \sin 25^\circ = \frac{20}{x}$$
$$x = \frac{20}{\sin 25^\circ}$$
$$x \approx 47.3$$



⁹ Find the acute angle measure, to the nearest degree.



<u>10</u> The specifications for a laptop computer describe its screen as measuring 15.4 in. However, this is actually the length of a diagonal of the rectangular screen, as represented in the figure. How wide is the screen horizontally, to the nearest tenth of an inch?

