

Incorrect. Call the angle of elevation A . The ramp is the hypotenuse of a right triangle with acute angle A , so $h = 8$. The length of the side opposite angle A equals the height above the ground of the other end of the ramp, so $o = 3$. This enables you to find the value of $\sin A$. Then use your calculator to find the arcsine (\sin^{-1}) of this value (which equals the angle A). The correct answer is 22° .