

You may have correctly used the definition of cosine, but you did not use the Pythagorean Theorem. You can draw a triangle with  $o = 5$  and  $a = 3$ . Then use the Pythagorean Theorem to find the length  $h$ , of the hypotenuse:

$$5^2 + 3^2 = h^2$$

Solve this equation for  $h$ . Then use the definition of cosine. The correct answer is  $\frac{3}{\sqrt{34}}$ .