

Incorrect. One way to solve this triangle is to use the definition of tangent to find  $x$ :

$$\frac{x}{3} = \tan 65^\circ$$

After you solve for  $x$ , you can use the Pythagorean Theorem to find  $y$ , or you can either use another trigonometric function (such as cosine).

The two acute angles are complementary, so  $m\angle A = 90^\circ - 65^\circ$ .