You may have thought that, because the lengths of the two sides are involved, and they are opposite and adjacent to the $40°$ angle, that somehow tangent was involved in the answer. However, tangent is not useful in this problem, because it would give you a ratio with the two variables. Instead, you need to use cosine to find x and sine to find y:

$$\cos 40° = \frac{x}{100} \text{ and } \sin 40° = \frac{y}{100}$$

Solve for x and y, add the results and use a calculator to get a numerical value.