You can use cosine to find *x* and sine to find *y*:

$$\cos 40^{\circ} = \frac{x}{100}$$
 and $\sin 40^{\circ} = \frac{y}{100}$

Multiply both sides of both equations by 100:

$$100\cos 40^{\circ} = x \text{ and } 100\sin 40^{\circ} = y$$

Add the two distances and use a calculator to find a numerical value.