Name		

Date _____

Drawing Vectors - Step-by-Step Lesson

Draw the indicated vector and show the components into which it is resolved. Calculate (after estimating) all your answers.

Every Sunday, Sandy goes for a morning walk in West of South at 55°. She walks at least 3 km.



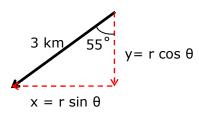
Explanation:

Draw the indicated vector.

Start with an arrow going in a southwesterly direction.

The arrow should be at a 55° angle.

The length of the arrow should indicate that it equal to 3 km in distance.



We will insert negative sign "-" in both x and y-components as both are in direction of negative x-axis and negative y-axis.

$$x = -3 \sin 55^{\circ}$$

= -3 x .817
= -2.451
 $y = -3 \cos 55^{\circ}$
= -3 x .573

= -1.719

So,
$$x = -2.451$$
 km and $y = -1.719$ km