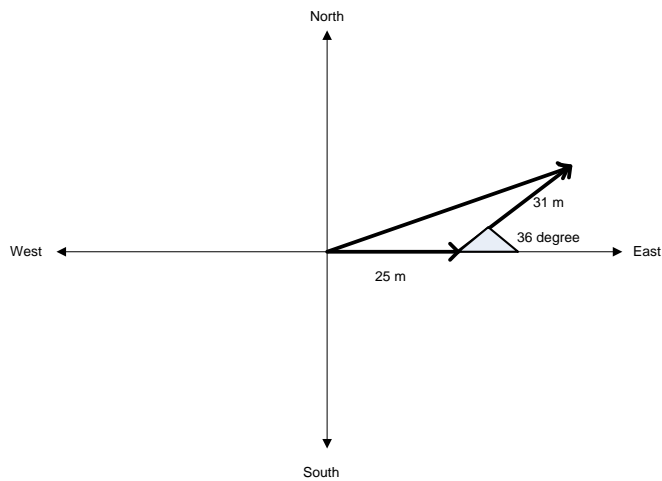


We will have:



So, the magnitude of the total displacement is:

$$d = \sqrt{25^2 + 31^2 - 2 \cdot 25 \cdot 31 \cdot \cos(180^\circ - 36^\circ)} =$$
$$= \sqrt{25^2 + 31^2 - 2 \cdot 25 \cdot 31 \cdot \cos(144^\circ)} = 53.3 \text{ m.}$$

Answer: 53.3 meters.