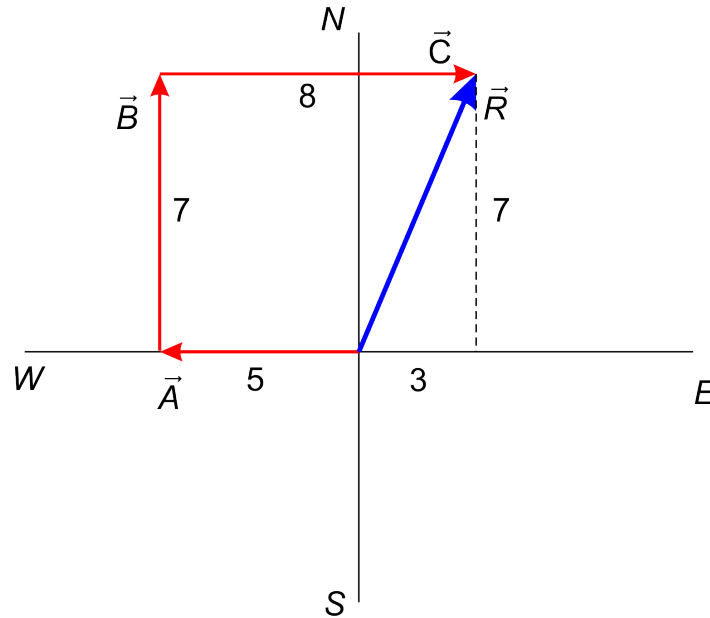## Answer on Question #45813, Physics, Mechanics | Kinematics | Dynamics

A girl delivering newspapers travels 5 blocks west, 7 blocks north, then 8 blocks east.
What is the magnitude of her resultant displacement?

Solution:

The magnitude of the displacement is

$$= \sqrt{(x)^2 + (y)^2} = \sqrt{(3)^2 + (7)^2} = \sqrt{58} = 7.6 \text{ blocks}$$

Answer: = 7.6 blocks.