

Week 21 2D Motion

1. Resultant Vx

Name: _____

person's velocity = 2 m/s

walkway velocity = 0 m/s

(Dx) = (Vx)(t)

Resultant Velocity Vx = _____

person's velocity = 2 m/s

walkway velocity = 1 m/s

(Dx) = (Vx)(t)

Resultant Velocity Vx = _____

person's velocity = 2 m/s

walkway velocity = 1 m/s

(Dx) = (Vx)(t)

Resultant Velocity Vx = _____

boat's velocity = 3 m/s

current velocity = 3 m/s

Use common sense!

Resultant Velocity Vx = _____

boat's velocity = 3 m/s

current velocity = 3 m/s

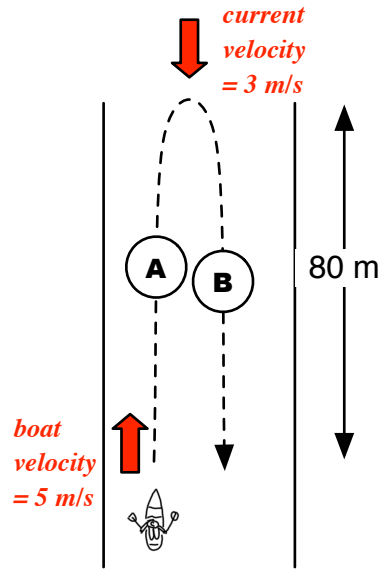
(Dx) = (Vx)(t)

Resultant Velocity Vx = _____

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2. Resultant Vx

Name: _____



A The boat travels 80 m up the river against the current.

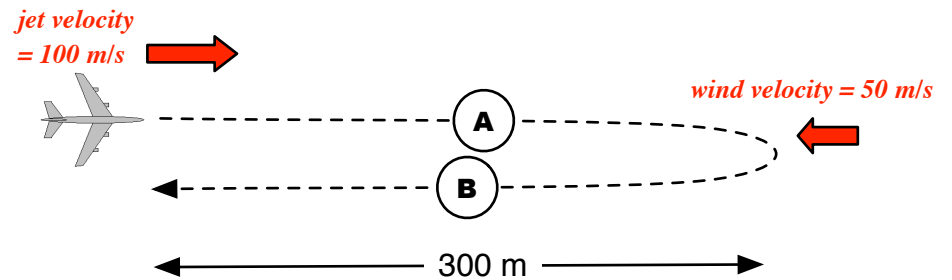
Resultant Velocity Vx = _____.

(Dx) = (Vx)(t)

B The boat travels 80 m down the river with the current.

Resultant Velocity Vx = _____.

(Dx) = (Vx)(t)



A The jet travels 300 m against the wind.

Resultant Velocity Vx = _____.

(Dx) = (Vx)(t)

B The jet travels 240 m with the wind.

Resultant Velocity Vx = _____.

(Dx) = (Vx)(t)