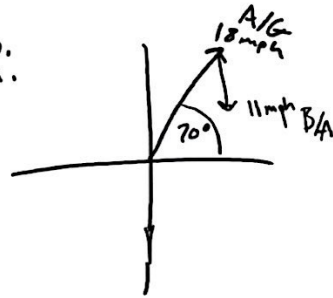


P: How far did boat B move.

R:



Alex Rodriguez
Isaac Abella
Jimmy Millmore
Yage Anjo

O: $V: \text{mph}$
 $V_{B/G} = V_{B/A} + V_{A/G}$

$$V = \frac{\Delta S}{\Delta t}$$

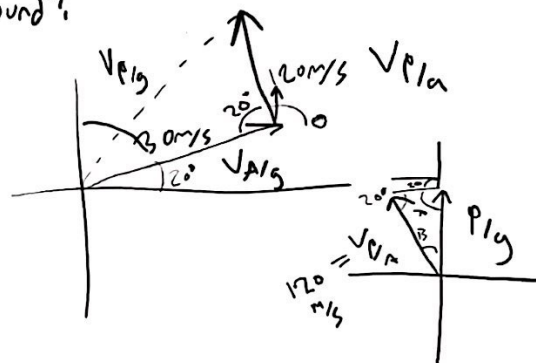
$$\Delta S = V \Delta t$$

$$\Delta S_B = (V_{B/A} + V_{A/G}) \Delta t$$

	Mag	Dir	X	y
$V_{A/G}$?	?		
$V_{A/G}$	18 mph	70°	$+18 \sin(70^\circ)$	$+18 \cos(70^\circ)$
$V_{B/A}$	11 mph	\downarrow	0	-11 mph

P: What direction should the airplane head so that it is flying north with respect to the ground?

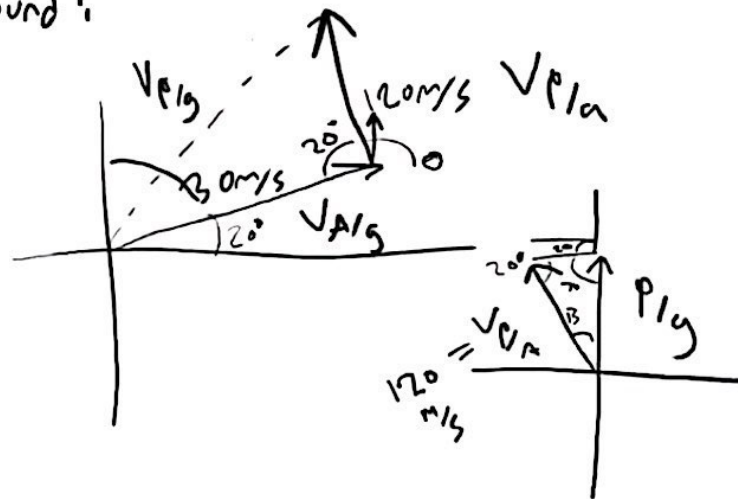
R:



Maa. ~~Dir~~ X Y

P: What direction should the airplane head so that it is flying north with respect to the ground?

R:



Mag.	Dir	X	Y
$V_{P/g}$?	\uparrow		
$V_{A/g}$ 120 m/s	?		
$V_{P/a}$ 30 m/s	$20^\circ \nearrow$	$30 \cos(20^\circ)$	$30 \sin(20^\circ)$

$$V_{P/g} = V_{P/a} + V_{A/g}$$

(law of sines:

$$\frac{\sin(A)}{A} = \frac{\sin(B)}{B} = \frac{\sin(C)}{C}$$

3 of 3 30 m/s. $20^\circ \nearrow 30 \cos(20^\circ) \quad 30 \sin(20^\circ)$

$$V_{p/g} = V_{p/a} + V_{a/g}$$

law of sines:

$$\frac{\sin(A)}{A} = \frac{\sin(B)}{B} = \frac{\sin(C)}{C}$$

p: What is the wind velocity?

