P: What angle must the boat head in deg?

0: Bout speed in still water: 2m/s, travels noth 108 m river velocity = . 45 m/s (- 45 m/s) VB16, VW16, VBW. V = A distance A time.

R: 108 VW16

VB/6. DVB/W

- 108 DVB/W

- 108 DVB/W

- 2.0 bout in velicion to weter uniting

Solution: A $\frac{\sin 90}{\sin 90} = \frac{\sin 9}{2.0} = \frac{\sin 9}{0.95} = 28.3 \text{ deg}$ $\frac{\sin 90}{2.0} = \frac{\sin 9}{0.95} = 28.3 \text{ deg}$

P: How long will it take for the boat to get across the river

Solution B.

solve for velocity of VB/g given Vw/g and VB/W

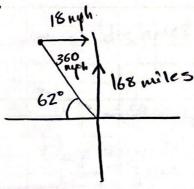
 $\chi^2 + .95^2 = 20^{22}$

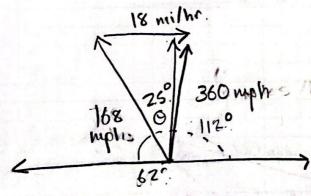
X = 1.75 m/s = 61.75

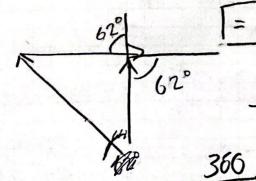
Problem A: What direction does the airplane need to fly to reach Terre Heute?

Given: 360 miles & 62° Now from knowille, airspeed is 168 mph, wind blows to uph east

Represent:







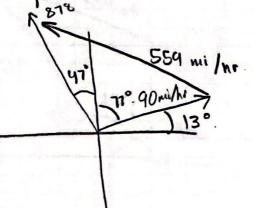
$$\frac{1}{62^{\circ}}$$
 $\frac{5 \text{ in } 118}{168} = \frac{5 \text{ in } 56.3}{\text{Velocity}} = 158.3$

p: direction the plane should fly straight from Barnesburg to Harpertouin.

VA1 = 90 milhr 6 13° NOE.

Harpertum distance = 878 miles 47° work.

R:



Solution:

