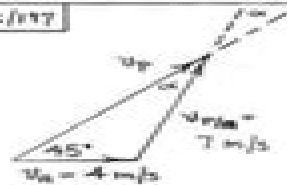


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With θ being the path:

$$V_p = V_A + V_{rel}$$

Law of sines:

$$\frac{\sin 45^\circ}{7} = \frac{\sin \alpha}{4}$$

$$\alpha = 23.8^\circ$$

2/198

w = wind
B = boat

$$V_w = V_B + V_{w/B}$$

$$V_w = 6.5 \text{ knots}$$

Law of sines:

$$\frac{V_w}{\sin 35^\circ} = \frac{6.5}{\sin 25^\circ}$$

$$V_w = \frac{6.5(\sin 35^\circ)}{\sin 25^\circ} = 14.40 \text{ knots}$$



2/198

w = wind
B = boat

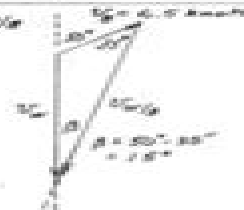
$$V_w = V_B + V_{w/B}$$

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Law of sines:

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$$V_w = \frac{6.5(\sin 35^\circ)}{\sin 25^\circ} = 14.40 \text{ knots}$$



2/199

$$V_B = V_A + V_{B/A}$$

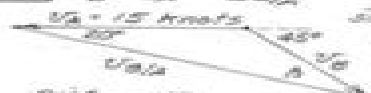
$$V_{B/A} = \frac{15}{\sin 135^\circ} = \frac{15}{\sin \beta}$$

$$\text{where } \beta = 180 - 20 - 135 = 25^\circ$$

$$V_{B/A} = \frac{0.707/15}{0.4226} = 25.1 \text{ knots}$$

$$t = \frac{\text{Dist}}{\text{Vel}} = \frac{10}{25} = 0.399 \text{ hr}$$

$$\text{or } 23.9 \text{ min}$$

So collision would occur at 2:24 PM

2/200

$$\text{Drop: } V_b = \sqrt{2gh} = \sqrt{2(10)(6)} = 10.95 \text{ m/s}$$

$$\text{Car: } V_c = 100/3.6 = 27.8 \text{ m/s}$$

$$V_{b/c} = V_b - V_c = -10.95\mathbf{j} - 27.8\mathbf{j} = -38.75\mathbf{j} \text{ m/s}$$

$$\alpha = \tan^{-1} \frac{10.95}{27.8}$$

$$= 21.3^\circ$$



$$40^\circ + \theta + \alpha = 90^\circ \Rightarrow \theta = 28.7^\circ \text{ below normal}$$

2/201

$$V_A = V_B + V_{A/B}$$



$$\text{Law of sines: } \frac{16.67}{\sin 40^\circ} = \frac{V_A}{\sin 120^\circ}$$

$$V_A = 22.5 \text{ m/s or } V_A = 80.8 \text{ km/h}$$

$$V_{A/B} = 16.67 \frac{\sin 20^\circ}{\sin 40^\circ} = 10.6, \quad \dot{\theta} = 0.887 \frac{\text{rad}}{\text{s}}$$



2/202

Let S = satellite, A = observer

$$V_S = V_A + V_{S/A}, \quad V_A = 400$$

$$= 4378 (\text{meters}) / (\text{seconds})$$

$$= 1574 \text{ km/s (km/s)}$$

$$V_S = 17940 \text{ km/s (km/s)}$$

$$\theta = \tan^{-1} \frac{1574}{17940} = 5.03^\circ$$

Satellite appears to travel 5.03°
west of north

2/203

$$V_A = 60 \text{ km/h}, \quad V_B = V_A + V_{B/A}$$



$$V_B = 20 \frac{\text{km}}{\text{h}}$$

$$V_{B/A}^2 = 40^2 + 20^2 - 2(40)(20)\cos 135^\circ$$

$$V_{B/A} = 129.6 \text{ km/h or } 36.0 \text{ m/s}$$

$$\frac{36.0}{\sin 135^\circ} = \frac{80/3.6}{\sin \beta}, \quad \beta = 25.9^\circ$$

$$r\dot{\theta} = V_{B/A} \cos \beta: 30\dot{\theta} = 36.0 \cos 25.9^\circ$$

$$\dot{\theta} = 0.1079 \text{ rad/s}$$

$$\dot{r} = -V_{B/A} \sin \beta: \dot{r} = -36.0 \sin 25.9^\circ$$

$$\dot{r} = -15.71 \text{ m/s}$$



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R Bogdan

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