

2/197

With  $\vec{r}$  being the path:

$$\vec{V}_p = \vec{V}_A + \vec{V}_{relA}$$

Law of sines:

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

$$\alpha = 23.8^\circ$$

2/198

w = wind  
B = boat

$$\vec{V}_w = \vec{V}_B + \vec{V}_{relB}$$

$$\vec{V}_w = 6.5 \text{ knots}$$

Law of sines:

$$\frac{V_w}{\sin 35^\circ} = \frac{6.5}{\sin 55^\circ}$$

$$V_w = \frac{6.5(0.5736)}{0.8192} = 4.40 \text{ knots}$$



2/198

w = wind  
B = boat

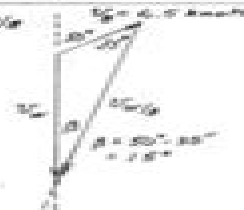
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2/199

$$\vec{V}_B = \vec{V}_A + \vec{V}_{relA}$$

$$\vec{V}_{relA} = \frac{15}{\sin 135^\circ}$$

$$\sin 135^\circ = \frac{15}{\sin \beta}$$

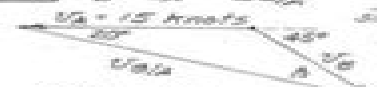
$$\text{where } \beta = 180 - 20 - 135 = 25^\circ$$

$$\vec{V}_{relA} = \frac{0.70715}{0.4226} = 25.1 \text{ knots}$$

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

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

So collision would occur at 2:24 PM



2/200

$$\text{Drop: } V_b = \sqrt{2gh} = \sqrt{2(1.8)(6)} = 10.85 \text{ m/s}$$

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

$$\vec{V}_{bc} = V_b - V_c = -10.85\hat{j} - 27.8\hat{i} \text{ m/s}$$

$$\alpha = \tan^{-1} \frac{10.85}{27.8}$$

$$= 21.3^\circ$$



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

2/201

$$\vec{V}_A = \vec{V}_B + \vec{V}_{A/B}$$



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

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

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



2/202

Let S = satellite, A = observer

$$\vec{V}_S = \vec{V}_A + \vec{V}_{relA}, \quad \vec{V}_A = 400$$

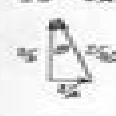
$$= 4378 (\text{meters}) / (\text{seconds})$$

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

$$\vec{V}_S = 27940 \text{ km/s (km/s)}$$

$$\theta = \tan^{-1} \frac{1574}{27940} = 3.43^\circ$$

Satellite appears to travel 3.43° west of north



2/203

$$\vec{V}_A = 60 \text{ km/h}, \quad \vec{V}_A = \vec{V}_B + \vec{V}_{A/B}$$



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

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

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

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

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

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

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



# Meriam 6th Edition Solution

**Christian Drosten**



**Meriam 6th Edition Solution:**

## **Meriam 6th Edition Solution** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Meriam 6th Edition Solution**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

<https://staging.conocer.cide.edu/About/detail/default.aspx/Gardens%20Of%20The%20Moon%20Malazan%20Of%20The%20F%20allen.pdf>

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