

2/153 $r = \sqrt{1000^2 + 400^2}$
 $= 1077 \text{ m}$

$\theta = \tan^{-1} \frac{400}{1000} = 21.8^\circ$

$v = \frac{500}{3.6} = 138.9 \text{ m/s}$

$a = a_n = \frac{v^2}{r} = \frac{138.9^2}{1077} = 17.4 \text{ m/s}^2$

$v_r = \dot{r} = v \cos \theta = 138.9 \cos 21.8^\circ = 127.7 \text{ m/s}$

$v_\theta = r\dot{\theta} : -127.7 \sin 21.8^\circ = 1077\dot{\theta}, \dot{\theta} = -0.0575 \frac{\text{rad}}{\text{s}}$

$a_r = \ddot{r} - r\dot{\theta}^2 : 23.1 \sin 21.8^\circ = \ddot{r} - 1077(-0.0575)^2$
 $\ddot{r} = 12.15 \text{ m/s}^2$

$a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} : 23.1 \cos 21.8^\circ = 1077\ddot{\theta} + 2(127.7)(-0.0575)$
 $\ddot{\theta} = 0.0365 \text{ rad/s}^2$



2/154 $\dot{\theta} = 2.20 \left(\frac{\pi}{180} \right) = 0.0384 \text{ rad/sec}$

$v_r = \dot{r} = 360 \text{ ft/sec}$

$v_\theta = r\dot{\theta} = 12,000(0.0384) = 461 \frac{\text{ft}}{\text{sec}}$

$v = \sqrt{v_r^2 + v_\theta^2} = 585 \text{ ft/sec}$
 or $v = 399 \text{ mi/hr}$

$30^\circ + \beta = \tan^{-1} \frac{360}{461} = 38.0^\circ, \beta = 8.0^\circ$

$h = r \cos 30^\circ = 12,000 \cos 30^\circ = 10,392 \text{ ft}$

$a_r = \ddot{r} - r\dot{\theta}^2 = 17.60 - 12,000(0.0384)^2 = 1.908 \frac{\text{ft}}{\text{sec}^2}$

$a = \frac{a_r}{\sin(\theta + \beta)} = \frac{1.908}{\sin 38.0^\circ} = 3.10 \text{ ft/sec}^2$

$a_\theta = \frac{a_r}{\tan(\theta + \beta)} = r\ddot{\theta} + 2\dot{r}\dot{\theta}$

$\frac{1.908}{\tan 38.0^\circ} = 12,000\ddot{\theta} + 2(360)(0.0384), \ddot{\theta} = -0.00200 \frac{\text{rad}}{\text{sec}^2}$



2/155 $\theta = 0.4 + 0.12t + 0.06t^2 \quad r = 0.8 - 0.1t - 0.05t^2$
 $\dot{\theta} = 0.12 + 0.12t \quad \dot{r} = -0.1 - 0.1t$
 $\ddot{\theta} = 0.12t \quad \ddot{r} = -0.1$

At $t = 2 \text{ s} : \begin{cases} \theta = 1.12 \text{ rad} & r = 0.4 \text{ m} \\ \dot{\theta} = 0.34 \text{ rad/s} & \dot{r} = -0.3 \text{ m/s} \\ \ddot{\theta} = 0.24 \text{ rad/s}^2 & \ddot{r} = -0.1 \text{ m/s}^2 \end{cases}$

$v = \dot{r}e_r + r\dot{\theta}e_\theta = -0.3e_r + 0.4(0.34)e_\theta$
 $= -0.3e_r + 0.136e_\theta \text{ m/s}$

$a = (\ddot{r} - r\dot{\theta}^2)e_r + (r\ddot{\theta} + 2\dot{r}\dot{\theta})e_\theta = [-0.1 - 0.4(0.24)]e_r$
 $+ [0.4(0.24) + 2(-0.3)(0.34)]e_\theta = -0.382e_r - 0.248e_\theta \text{ m/s}^2$

$\theta_1 = \tan^{-1} \frac{|v_\theta|}{|v_r|} = 41.8^\circ$
 $\alpha = 90^\circ + \theta_1 = 131.8^\circ$
 $\theta_2 = \tan^{-1} \frac{|a_\theta|}{|a_r|} = 60.5^\circ$
 $\beta = -90^\circ + \theta_2 = -26.4^\circ$



2/156 $v' = |v_r| = v \cos \theta = v \frac{500}{\sqrt{500^2 + 20^2}} = 69.9 \text{ mi/hr}$

The factor of $\cos \theta$ is the basis for the statement that, kinematically, radar can yield an accurate or low, but not high, speed measurement. As can be seen, however, adherence to the speed limit (not release rpm $\cos \theta$) is the best policy!

2/157 Radial line r must be tangent to trajectory for $\theta = 0$. Thus θ direction is in the opposite sense to the normal n -direction of the curve.

$r = 35,000 \text{ ft}, \dot{r} = 1000 \text{ ft/sec}$
 $\dot{\theta} = 0, \ddot{\theta} = 7.20(10^{-3}) \text{ rad/sec}^2$
 $a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} = 35,000(7.20(10^{-3})) + 0 = 252 \text{ ft/sec}^2$
 $-a_\theta = a_r = v'^2/\rho, \rho = v'/a_\theta$
 $= \frac{(1000)^2}{252} = 3968 \text{ ft}$



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Umesh A. Korde, R. Cengiz Ertekin



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