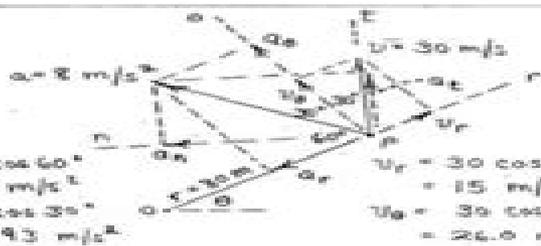


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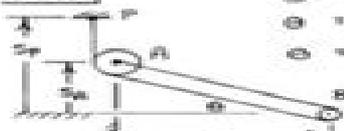


$a_r = -8 \cos 60^\circ = -4 \text{ m/s}^2$
 $a_\theta = 8 \sin 30^\circ = 4.93 \text{ m/s}^2$
 $v_r = 30 \cos 60^\circ = 15 \text{ m/s}$
 $v_\theta = 30 \sin 30^\circ = 26.0 \text{ m/s}$

$[r-\theta] \quad v_r = \dot{r} = 15 \text{ m/s}$
 $v_\theta = r\dot{\theta} = 26.0 = 30\dot{\theta} \Rightarrow \dot{\theta} = 0.867 \text{ rad/s}$
 $a_r = \ddot{r} - r\dot{\theta}^2 = -4 = \ddot{r} - 30(0.867)^2 \Rightarrow \ddot{r} = 4.44 \text{ m/s}^2$
 $a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} = 4.93 = 30\ddot{\theta} + 2(15)(0.867) \Rightarrow \ddot{\theta} = 0.0352 \text{ rad/s}^2$

$[n-t] : a_n = 8 \cos 30^\circ = 6.93 \text{ m/s}^2$
 $a_t = 8 \sin 60^\circ = 6.93 \text{ m/s}^2$
 $a_n = \frac{v_\theta^2}{r} ; r = \frac{v_\theta^2}{a_n} = \frac{26^2}{6.93} = 123.7 \text{ m}$

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$\theta = 45^\circ : v_\theta/v_r = 1$
 $\theta = 30^\circ : v_\theta/v_r = \sqrt{3}$
 $\theta = 15^\circ : v_\theta/v_r = 3.73$

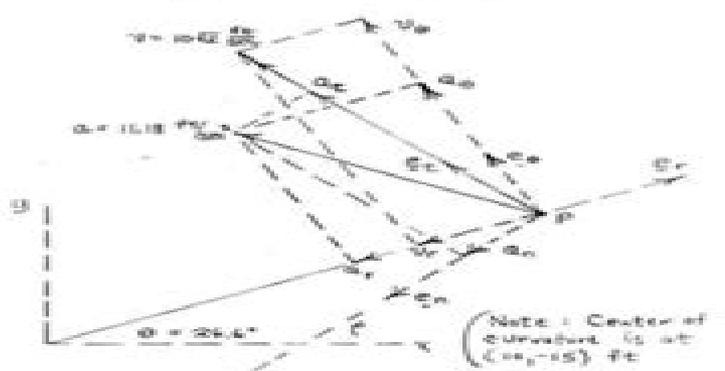
$L = (s_y - s_x) = 2\sqrt{s_x^2 + s_y^2}$
 $0 = -v_A + 2(3v_x v_A + s_\theta v_\theta) / \sqrt{s_x^2 + s_y^2}$
 $0 \Rightarrow v_\theta = \left[\sqrt{1 + (v_\theta/v_r)^2} - 2 \right] \frac{v_A}{2(v_\theta/v_r)}$
 $\theta = 45^\circ : v_\theta = -0.293 v_A = -0.293(-1) = 0.293 \frac{ft}{s}$
 $\theta = 30^\circ : v_\theta = 0$
 $\theta = 15^\circ : v_\theta = 0.250 v_A = 0.250(-1) = -0.250 \frac{ft}{s}$

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$x = 50 \text{ ft} ; \dot{x} = -10 \text{ ft/sec} ; \ddot{x} = -10 \text{ ft/sec}^2$
 $y = 25 \text{ ft} ; \dot{y} = 10 \text{ ft/sec} ; \ddot{y} = 5 \text{ ft/sec}^2$

$v = \sqrt{\dot{x}^2 + \dot{y}^2} = \sqrt{(-10)^2 + 10^2} = 10\sqrt{2} \text{ ft/sec}$
 $a = \sqrt{\ddot{x}^2 + \ddot{y}^2} = \sqrt{(-10)^2 + 5^2} = 11.8 \text{ ft/sec}^2$
 $s_x = \frac{v}{\omega} = \frac{(-10) + 10j}{10\sqrt{2}} = \frac{10}{\sqrt{2}}(-1 + j)$
 $s_\theta = \dot{\theta} = \frac{(-10) + 10j}{10\sqrt{2}} \cdot \frac{10}{\sqrt{2}}(-1 + j) = \frac{100}{20}(-1 + j) = 5(-1 + j) \text{ rad/sec}$
 $s_x = 4.71(-1 + j) = -4.71 + 4.71j$
 $s_\theta = 2(-1 + j) = (-2 + 2j) = (-2.83 + 2.83j) \text{ rad/sec}^2$
 $r = \frac{v^2}{a_n} = \frac{(10\sqrt{2})^2}{11.8} = 52.6 \text{ ft}$
 $s_n = \frac{v^2}{r} = \frac{(10\sqrt{2})^2}{52.6} = 3.54 \text{ rad/sec}^2$
 $s_t = \frac{v}{r} = \frac{10\sqrt{2}}{52.6} = 0.274 \text{ rad/sec}$
 $s_x = s_r \cos \theta + s_\theta \sin \theta = -0.471i + 0.471j$
 $v_r = v \cdot s_x = (-10) + 10j \cdot (-0.471i + 0.471j) = -4.71i + 4.71j \text{ ft/sec}$
 $v_\theta = v \cdot s_\theta = (-10) + 10j \cdot (-2.83 + 2.83j) = 28.3i - 28.3j \text{ ft/sec}$
 $a_r = v_r \cdot s_x = (-4.71i + 4.71j) \cdot (-0.471i + 0.471j) = 2.21i - 2.21j \text{ ft/sec}^2$
 $a_\theta = v_\theta \cdot s_\theta = (28.3i - 28.3j) \cdot (-2.83 + 2.83j) = -80.2i + 80.2j \text{ ft/sec}^2$
 $a_r + a_\theta = (-78.0i + 84.9j) \text{ ft/sec}^2$

$a_n = 3 \cdot s_n = (-10) + 10j \cdot (-0.471i + 0.471j) = 4.71i - 4.71j \text{ ft/sec}^2$
 $s_x = 4.71(-1 + j) = -4.71 + 4.71j$
 $r = \sqrt{s_x^2 + s_y^2} = \sqrt{50^2 + 25^2} = 55.9 \text{ ft}$
 $\dot{r} = v_r = -4.71 \text{ ft/sec}$
 $v_\theta = r\dot{\theta} ; \dot{\theta} = \frac{v_\theta}{r} = \frac{28.3}{55.9} = 0.504 \text{ rad/sec}$
 $a_r = \ddot{r} - r\dot{\theta}^2 ; \ddot{r} = -3.41 \text{ ft/sec}^2$
 $a_\theta = r\ddot{\theta} + 2\dot{r}\dot{\theta} ; \ddot{\theta} = \frac{1}{r}(a_\theta - 2\dot{r}\dot{\theta}) = \frac{1}{55.9}[80.2 - 2(-4.71)(0.504)] = 1.454 \text{ rad/sec}^2$
 $\theta = \tan^{-1}(3/4) = \tan^{-1}(75/50) = 56.3^\circ$



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