

2/124 $v_{x=50'} = \sqrt{2g\left(\frac{50}{32.2}\right)^2} = \frac{5}{2}\sqrt{2g} \frac{\text{ft}}{\text{sec}}$
 $a_n = \frac{v^2}{r}$, where $r = \frac{[1 + (\frac{dy}{dx})^2]^{3/2}}{dy/dx} = \frac{[1 + (\frac{3}{200})^2]^{3/2}}{1/200}$
 $r_{x=50'} = 219 \text{ ft}$
 $a_n = \frac{25}{2} \cdot 2(32.2)/219 = 1.838 \text{ ft/sec}^2$

2/125 $a_n = v^2/r = 4^2/0.120 = 133.3 \text{ m/s}^2$
 $a_t = a_n \sin 4^\circ = 133.3 \sin 4^\circ = 9.27 \text{ m/s}^2$
 with a_t const., $v^2 = v_i^2 + a_t t$, $0 = 4^2 - 9.27 t$
 $t = \frac{4^2}{9.27} = 2.10 (10^{-3}) \text{ s}$

2/126 $v_0 = 100 \text{ ft/sec}$

 (a) $a_n = g \cos 30^\circ = \frac{v^2}{r}$
 $r = \frac{100^2}{g \cos 30^\circ} = 359 \text{ ft}$
 $\dot{v} = -g \sin 30^\circ = -16.1 \text{ ft/sec}^2$
 (b) $a_n = g = \frac{v^2}{r}$
 $r = \frac{(100 \cos 30^\circ)^2}{32.2} = 233 \text{ ft}$
 $\dot{v} = 0$

2/127 The time t_{ap} to apex is found from
 $v_y = v_{y0} - gt$; $0 = 100 \sin 30^\circ - 32.2 t_{ap}$, $t_{ap} = 1.553 \text{ s}$
 So, $t = 1 \text{ sec}$ is before apex and $t = 2.5 \text{ sec}$ is after.
 (a) $t = 1 \text{ sec}$
 $x = v_x = 100 \cos 30^\circ = 86.6 \text{ ft/sec}$
 $v_y = 100 \sin 30^\circ - 32.2(1) = 17.8 \text{ ft/sec}$
 $v = \sqrt{v_x^2 + v_y^2} = 88.4 \text{ ft/sec}$
 $\theta = \tan^{-1} \frac{v_y}{v_x} = 11.41^\circ$
 $a_n = g \cos \theta = 32.2 \cos 11.41^\circ = 31.5 \text{ ft/sec}^2$
 $r = \frac{v^2}{a_n} = \frac{88.4^2}{31.5} = 248 \text{ ft}$
 $a_t = -g \sin \theta = -32.2 \sin 11.41^\circ = -6.48 \text{ ft/sec}^2$
 (b) $t = 2.5 \text{ sec}$
 $v_x = 86.6 \text{ ft/sec}$
 $v_y = 100 \sin 30^\circ - 32.2(2.5) = -39.5 \text{ ft/sec}$
 $v = \sqrt{v_x^2 + v_y^2} = 91.8 \text{ ft/sec}$
 $\theta = \tan^{-1} \frac{|v_y|}{v_x} = 17.40^\circ$
 $a_n = g \cos \theta = 32.2 \cos 17.40^\circ = 30.4 \text{ ft/sec}^2$
 $r = \frac{v^2}{a_n} = \frac{91.8^2}{30.4} = 278 \text{ ft}$
 $a_t = +g \sin \theta = +32.2 \sin 17.40^\circ = 10.70 \text{ ft/sec}^2$

2/128 $\theta = 1.50^\circ$

 $\dot{v} = a_t = 9.44 \sin 1.50^\circ = 12.90 = -12.65 \text{ m/s}^2$
 $a_n = g \cos \theta = 9.44 \cos 1.5^\circ = 9.457 \text{ m/s}^2$
 $a_n = \frac{v^2}{r} \Rightarrow r = \frac{v^2}{a_n} = \frac{(12.90)^2}{9.457}$
 $r = 1707 \text{ km}$

2/129 $a_n = a_{xy} = \frac{v^2}{r} \Rightarrow v = \sqrt{0.8g r}$
 Car A: $v_A = \sqrt{0.8(9.8)(88)} = 26.3 \text{ m/s}$
 Car B: $v_B = \sqrt{0.8(9.8)(72)} = 23.8 \text{ m/s}$
 $t_A = \frac{s_A}{v_A} = \frac{\pi(88)}{26.3} = 10.52 \text{ s}$
 $t_B = \frac{s_B}{v_B} = \frac{\pi(72) - 2(4)}{23.8} = 10.86 \text{ s}$
 Car A will win the race!

2/130 Evaluate $y = y_0 + v_{y0}t - \frac{1}{2}gt^2$ at C:
 $0 = 150 + 0 - \frac{1}{2}(9.8)t^2$, $t = 3.05 \text{ sec}$
 Evaluate $x = x_0 + v_{x0}t + \frac{1}{2}a_x t^2$ at C:
 $120 = 0 + 50(3.05) + \frac{1}{2}a_x(3.05)^2$, $a_x = -7.00 \text{ ft/sec}^2$
 At B: $\begin{cases} v_x = v_{x0} + a_x t: v_x = 50 - 7.00t \\ v_y = v_{y0} - gt: |v_y| = 32.2 \end{cases}$
 Set $v_x = |v_y|$ to obtain $t = 1.275 \text{ sec}$
 So at B: $v_x = |v_y| = 32.2(1.275) = 41.1 \text{ ft/sec}$
 The speed at B is $v = 41.1\sqrt{2} = 58.1 \text{ ft/sec}$
 $a_n = 32.2 \cos 45^\circ + 7.00 \cos 45^\circ = 27.7 \text{ ft/sec}^2$
 From $a_n = \frac{v^2}{r}$
 $r = \frac{v^2}{a_n} = \frac{(58.1)^2}{27.7} = 121.7 \text{ ft}$

2/131 For a_t const., $v_f^2 = v_i^2 + 2a_t s_{ac}$
 $v_f^2 = \frac{250^2}{3.2} + 2 \cdot \frac{250}{3.2} \cdot s_{ac}$, $s_{ac} = \frac{(250)^2 - (150)^2}{2(250)} = 2.09 \text{ m/s}^2$
 $v_f^2 = v_i^2 + 2a_t s_{ac} = \left(\frac{250}{3.2}\right)^2 + 2(2.09)(250) = 3154 \text{ (m/s)}^2$
 $v_f = 56.2 \text{ m/s}$
 at B, $a_t = \frac{v^2}{r} = \frac{56.2^2}{250} = 12.7 \text{ m/s}^2$
 $a = \sqrt{a_n^2 + a_t^2} = \sqrt{(2.09)^2 + (12.7)^2} = 12.8 \text{ m/s}^2$

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