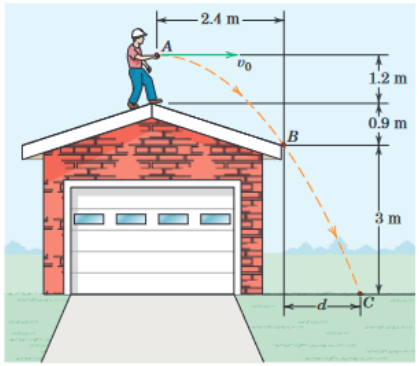
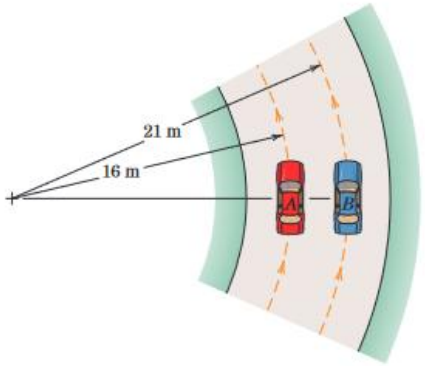
Problemas sugeridos

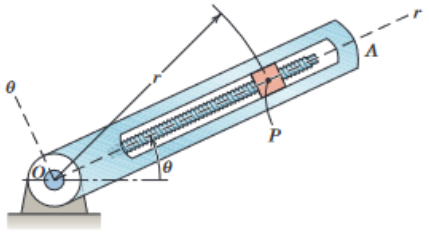
2/67 A roofer tosses a small tool to the ground. What minimum magnitude v_0 of horizontal velocity is required to just miss the roof corner B? Also determine the distance d.



2/97 Determine the maximum speed for each car if the normal acceleration is limited to $0.88g$. The roadway is unbanked and level.



2/131 The position of the slider P in the rotating slotted arm OA is controlled by a power screw as shown. At the instant represented, $\dot{\theta} = 8$ rad/s and $\ddot{\theta} = -20$ rad/s^2. Also at this same instant, $r = 200$ mm, $\dot{r} = -300$ mm/s, and $\ddot{r} = 0$. For this instant determine the r- and θ-components of the acceleration of P.



Problem 2/131

Aspectos a dominar:

- Trayectoria de partículas
- Derivación e integración en cinemática
- Movimiento general en diferentes sistemas de coordenadas

Hint: https://www.youtube.com/watch?v=xAN-MjVU0E0