

2.29)

An automobile driver traveling down an 8% grade slams on his brakes and skids 30 m before hitting a parked car. A lawyer hires an expert who measures the coefficient of kinetic friction between the tires and road to be $\mu_k = 0.45$. Is the lawyer correct to accuse the driver of exceeding the 25-MPH speed limit? Explain...

$\rightarrow$ An 8% grade means the angle θ with respect to the horizontal is such that $\tan(\theta) = 0.08$