





Method		
propulsive weight normal weight drag centrifugal force normal reaction force friction force	$F_{WP} = mg \sin \alpha$ $F_{WN} = mg \cos \alpha$ $F_{D} = \frac{1}{2} \rho C_{DA} v^{2}$ $F_{C} = m v^{2} / r$ $F_{R} = F_{WN}$ $F_{R} = (F_{WN}^{2} + F_{C}^{2})^{\frac{1}{2}}$ $F_{F} = \mu F_{R}$	in straights in turns
equation of motion	$\mathbf{m} \ \mathbf{a} = \mathbf{F} \mathbf{w} \mathbf{P} - \mathbf{F} \mathbf{D} - \mathbf{F} \mathbf{F}$	
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