

BASIC FORMULAS

$$F.P.S. = M.P.H. (1.47)$$

$$M.P.H = \frac{F.P.S}{1.47}$$

$$\frac{5,280FT.}{3,600SEC.} = 1.4666 = 1.47 \quad (60 \text{ SEC./MIN.} - 60 \text{ MIN./HR.})$$

$$F = \frac{S^2}{30D} \quad (\text{DRAG FACTOR})$$

$$D = \frac{S^2}{30F} \quad (\text{DISTANCE TO STOP})$$

$$S = 5.5\sqrt{DF} \quad (\text{STRAIGHT SKID SPEED})$$

$$R = \frac{C^2}{8M} + \frac{m}{2} \quad (\text{RADIUS})$$

$$S = \sqrt{S_1^2 + S_2^2} \quad (\text{COMBINED SPEED})$$