

BASIC FORMULAS

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

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

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

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

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

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

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

$$S = \sqrt{S1^2 + S2^2} \quad (COMBINED \text{ SPEED})$$