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$$240 \frac{\text{km}}{\text{h}} \times \frac{1000 \text{ m}}{\text{km}} \times \frac{\text{h}}{3600 \text{ s}} = 66.67 \frac{\text{m}}{\text{s}}$$

$$v_f^2 - v_0^2 = 2a(x_f - x_0)$$

$$0 - 66.67^2 = 2a(75 - 0)$$

$$a = \frac{66.67^2}{2(75)} = \underline{\underline{-29.63 \text{ m/s}^2}}$$

$$v_f = v_0 + at$$

$$0 = 66.67 - 29.63t \quad \underline{\underline{t = 2.25 \text{ s}}}$$

$$F = ma = (2000)(29.63) = 59260 \text{ N}$$

directed against
the motion of
the plane