3/1

$$v_2^2 - v_1^2 = 2a(x_2 - x_1)$$
$$0^2 - \left(\frac{100}{3.6}\right)^2 = 2a_x(50), \quad a_x = -7.72 \text{ m/s}^2$$

$$\Sigma F_x = ma_x: \quad -4F = 1500(-7.72)$$
$$\underline{F = 2890 \text{ N}}$$

3/2

$$\Sigma F_y = 0: \quad N - 50(9.81)\cos 15° = 0$$
$$N = 474 \text{ N} \quad \text{Throughout}$$

(a) $P = 0$

Equilibrium check:
$$\Sigma F_x = 0: \quad F - 50(9.81)\sin 15° = 0$$
$$F = 127.0 \text{ N}$$

$$F_{max} = \mu_s N = 0.2(474) = 94.8 \text{ N} < F : \text{ motion}$$
$$\Sigma F_x = ma_x: \quad 0.15(474) - 50(9.81)\sin 15° = 50a_x$$
$$\underline{a_x = -1.118 \text{ m/s}^2}$$

(b) $P = 150 \text{ N}$; Equilibrium check :
$$\Sigma F_x = 0: \quad 150 + F - 50(9.81)\sin 15° = 0$$
$$F = -23.0 \text{ N}, \quad |F| < F_{max} \quad \text{so no motion : } \underline{a = 0}$$

(c) $P = 300 \text{ N}$; Equilibrium check yields $F = -173.0 \text{ N}$
$$|F| > F_{max} , \text{ so motion} , \quad F = F_k .$$
$$\Sigma F_x = ma_x: \quad 300 - 0.15(474) - 50(9.81)\sin 15° = 50a_x$$
$$\underline{a_x = 2.04 \text{ m/s}^2}$$

3/3

$$\Sigma F_y = 0: \quad N - 80\cos 20° = 0$$
$$N = 75.2 \text{ lb}$$
$$\Sigma F_x = ma_x:$$
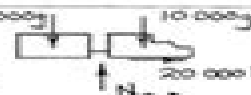$$-0.25(75.2) - 80\sin 20° = \frac{80}{32.2}a$$
$$a = -18.58 \text{ ft/sec}^2$$

$$v = v_0 + at: \quad 0 = +30 - 18.58t, \quad \underline{t = 1.615 \text{ sec}}$$
$$v^2 = v_0^2 + 2a(s - s_0): \quad 0^2 = 30^2 + 2(-18.58)d$$
$$\underline{d = 24.2 \text{ ft}}$$

$$v^2 = v_0^2 + 2a(s - s_0): \quad 15^2 = 30^2 + 2(-18.58)d'$$
$$\underline{d' = 18.17 \text{ ft}}$$

3/4

$$\Sigma F_x = ma_x :$$
$$3(240\,000) - 300\,000(9.81)\sin\tfrac{1}{2}° = 300\,000\,a_x$$
$$a_x = 2.31 \text{ m/s}^2$$
$$v^2 = 2a_x s: \quad \left(\frac{220}{3.6}\right)^2 = 2(2.31)s, \quad \underline{s_a = 807 \text{ m}}$$

$$\Sigma F_x = ma_x:$$
$$3(240\,000) + 300\,000(9.81)\sin\tfrac{1}{2}° = 300\,000\,a_x$$
$$a_x = 2.41 \text{ m/s}^2$$
$$v^2 = 2a_x s: \quad \left(\frac{220}{3.6}\right)^2 = 2(2.41)s, \quad \underline{s_d = 751 \text{ m}}$$

3/5

For entire unit :

$$\Sigma F = ma: \quad 20\,000 = 30\,000\,a$$
$$a = 0.667 \text{ m/s}^2$$

For trailer alone, $T = 20\,000(0.667) = 13\,330 \text{ N}$

or $\underline{T = 13.33 \text{ kN}}$

3/6

$$\Sigma F = ma: \quad mg\sin 40° - \mu_s mg\cos 40° = ma$$
$$a = 9.81(\sin 40° - \mu_s \cos 40°)$$
$$= 6.31 - 7.51\mu_s$$

For constant accel. $s = s_0 + \dot{s}t + \tfrac{1}{2}at^2:$
$$20 = 0 + \tfrac{1}{2}(6.31 - 7.51\mu_s)2.50^2$$
$$\underline{\mu_s = 0.0395}$$

3/7

(a)

$$\Sigma F = ma; \quad T - 100 = \frac{100}{32.2}a$$
$$150 - T = \frac{150}{32.2}a$$
$$50 = \frac{250}{32.2}a, \quad a = \frac{32.2}{5} = 6.44 \text{ ft/sec}^2$$

(b)

$$150 - 100 = \frac{100}{32.2}a, \quad a = \frac{32.2}{2} = 16.10 \text{ ft/sec}^2$$

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