

P #2

Ch 4 - pg 106

$$V_0 = 0 \text{ m/s}$$

$$t = .20 \text{ sec}$$

$$m = .50 \text{ kg}$$

$$V_f = 10 \text{ m/s}$$

$$V_f = V_0 + a \cdot t$$

$$(10 \text{ m/s}) = 0 \text{ m/s} + a \cdot (.20 \text{ sec})$$

$$a = 50 \text{ m/s}^2$$

$$F = m \cdot a$$

$$= (.50 \text{ kg})(50 \text{ m/s}^2)$$

$$F = 25 \text{ N}$$