DEAKIN COLLEGE-SLE123- problem solving activity 2

Solution:

A1 – (c),
$$a = F_{net} / m = (1.7 - 0.9) / 1.577 = 0.507 m/s^2$$

A2 – (b),
$$f_k = \mu_k N = 0.19 \times 0.737 \times 9.8 = 1.37$$

$$B1 - (a) a = 3.5 \text{ m/s}^2$$

(b)
$$F = 10.5 N$$

(c)
$$F_{fric} = 5.88 \text{ N} \text{ (Use g} = 9.8 \text{ m/s}^2\text{)}$$