

Physics, Ch 1 #194

2) C. 50. N

Physics, Ch 1 #195

3) C. the same

Physics, Ch 1 #196

4) B. F

Physics, Ch 1 #197

5) C. F

Physics, Ch 1 #198

6) C. less

Physics, Ch 1 #199

7) A. accelerating in the direction of F_1

Physics, Ch 1 #200

8) B. the same

Physics, Ch 1 #201

9) C. 20. N

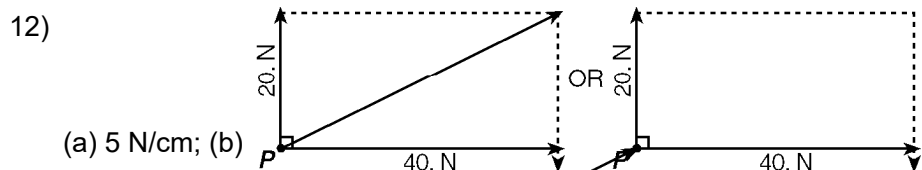
Physics, Ch 1 #202

10) D. accelerating downward

Physics, Ch 1 #203

11) C. accelerating upward

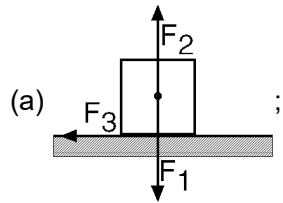
Physics, Ch 1 #204



(c) 45 N; (d) 27° ; (e) 4.5 N/kg

Physics, Ch 1 #205

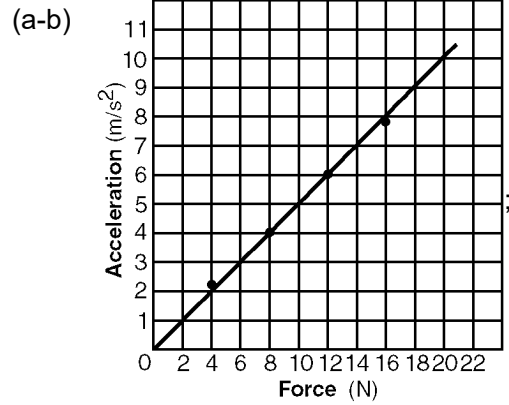
13)



(b) $F = ma$, $2.4 \text{ N} = (\frac{20.}{9.8})a$, $a = 1.2 \text{ m/s}^2$

Physics, Ch 1 #206

14)



(c) Applying Newton's second law ($F = ma$): $M = (F \div a)$, $MA = (20.0 \text{ N}) \div (10.0 \text{ m/s}^2) = 2.0 \text{ kg}$

Physics, Ch 1 #207