

11. A 35 N force pulls on an object at 25° North of East. A second force pulls North with 20 N. A third force pulls East with 3 N.
A. Find the net force on the object.



$$\begin{aligned} F_{y2} &= 20 \text{ N} \\ F_{x2} &= 0 \\ F_{y3} &= 0 \\ F_{x3} &= 3 \text{ N} \end{aligned}$$

$$\begin{aligned} F_{y4} &= 14.8 + 20 = 34.8 \text{ N} \\ F_{x4} &= 31.7 + 3 = 34.7 \text{ N} \\ R &= \sqrt{34.8^2 + 34.7^2} = 49.1 \text{ N} \\ &\quad \text{at } 45^\circ \text{ N of E} \end{aligned}$$

- B. What force would be necessary to keep the object at equilibrium?

Same force, but 180° away. $[-49.1 \text{ N at } 45^\circ \text{ OR } 49.1 \text{ N at } 225^\circ]$

12. Will the object move? If yes, find acceleration. If not, find what additional force is necessary to move it.

First - resolve the angled force.

You need force of friction, which needs F_N , so y-dir first.

$$\begin{aligned} \Sigma F_y &= m a_y \\ F_N + 30 - 120 &= m(0) \\ F_N &= 120 - 30 = 90 \text{ N} \end{aligned}$$

$$\begin{aligned} \text{x-dir.} \\ \Sigma F_x &= m a_x \end{aligned}$$

$$\begin{aligned} 52 - 9 &= m a \\ 43 &= 12 a \\ a &= 3.6 \text{ m/s}^2 \end{aligned}$$



13. If M_1 and M_2 are equal and I push M_2 down with m (initial velocity of 2 m/s, what will M_2 's velocity after 3 seconds?

$a = 0$
not going to speed up.
 $V_i = 2 \text{ m/s}$ $V_f = 2 \text{ m/s}$

14. If $M_2 = 3 \text{ kg}$ and $M_1 = 5 \text{ kg}$, find the tension in the rope.

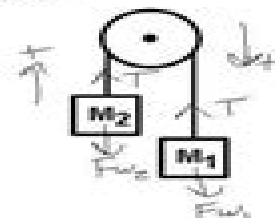
$$\begin{aligned} \text{Choose B to be +.} \\ \Sigma F &= m a \\ T - F_{G2} &= m_2 a \\ T - 30 &= 3 a \\ T &= 30 + 3 a \end{aligned}$$

$$\begin{aligned} F_{G1} - T &= m_1 a \\ 50 - T &= 5 a \end{aligned}$$

$$50 - (30 + 3a) = 5a$$

$$\begin{aligned} 50 - 30 - 3a &= 5a \\ 20 &= 8a \\ a &= 2.5 \\ T - 30 &= 3(2.5) \\ T - 30 &= 7.5 \end{aligned}$$

$$\begin{aligned} T - 30 &= 7.5 \\ T &= 37.5 \text{ N} \end{aligned}$$



15. If I push on an object with 50 N of force with how much force does it push back on me? 50 N (= 2nd opp. forces)
16. If I push down on the earth with 300 N. How much does the earth push back on me? 300 N
17. A 70 N force pushes on three objects: 2 kg, 4 kg, and 6 kg.
A. Which one will have the greatest acceleration? 2 kg (least mass)
B. Which one will push back with the greatest force? No difference - all will push back with 70 N.
C. Which one will have the least acceleration? 6 kg (most mass)

18. A box is in the back of a truck. If the truck accelerates quickly, what happens to the box?

It seems to go backwards in the truck, but it is really staying still in relation to the ground.

19. When a car crashes, what would happen to the occupant of the car if they were not wearing a seatbelt?

When the car stops (crashes) the person would continue forward due to inertia + hit the window.

20. Which of Newton's Laws applies?

- 3 A. How a rocket can fly in space. (= + opp.)
2 B. Braking hard wears out your brakes faster. (more F)
1 C. When a car turns objects in the car keep going straight. (inertia)

21. What do we call any force that keeps an object in a circle? centripetal force

22. A 40 N force pushes on a 3.5 m² surface. What is the pressure on the surface?

$$P_r = \frac{F}{A} = \frac{40 \text{ N}}{3.5 \text{ m}^2} = 11.4 \text{ N/m}^2$$

Answers Key Unit 2 Force And Motion

E Durkheim



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