

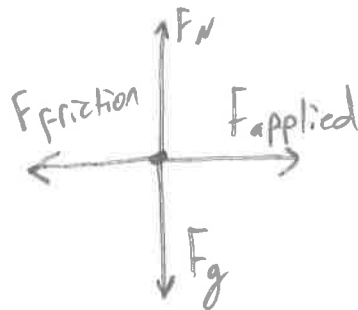
Chapter 5 EOC Problems: Pg 71: 12, 22, 24, 25, 42

12. Acceleration of gravity is constant

22. $F = m \cdot a \rightarrow 1 \text{ kg} \cdot 9.8 \text{ m/s}^2 = 9.8 \text{ N}$

24. proportional: ratio between them (ie: related)
equal: the exact same

25. No acceleration can be 2 situations: Net force is zero or there is no force acting on an object



42. 30 g $g = \text{force of gravity}$

$$F = m \cdot a = 70 \text{ kg} \cdot 9.8 \text{ m/s}^2 \cdot 30 = 20,580 \text{ N}$$