

P5.6

- (a) Let the x axis be in the original direction of the molecule's motion. Then, from $v_f = v_i + at$, we have

$$a = \frac{v_f - v_i}{t} = \frac{-670 \text{ m/s} - 670 \text{ m/s}}{3.00 \times 10^{-13} \text{ s}} = \boxed{-4.47 \times 10^{15} \text{ m/s}^2}$$

- (b) For the molecule, $\sum \vec{F} = m\vec{a}$. Its weight is negligible.

$$\begin{aligned} \vec{F}_{\text{wall on molecule}} &= (4.68 \times 10^{-26} \text{ kg})(-4.47 \times 10^{15} \text{ m/s}^2) \\ &= -2.09 \times 10^{-10} \text{ N} \end{aligned}$$

$$\vec{F}_{\text{molecule on wall}} = \boxed{+2.09 \times 10^{-10} \text{ N}}$$

*P5.7

Imagine a quick trip by jet, on which you do not visit the rest room and your perspiration is just canceled out by a glass of tomato juice. By subtraction, $(F_g)_p = mg_p$ and $(F_g)_c = mg_c$ give

$$\Delta F_g = m(g_p - g_c)$$

For a person whose mass is 90.0 kg, the change in weight is

$$\Delta F_g = 90.0 \text{ kg}(9.8095 - 9.7808) = \boxed{2.58 \text{ N}}$$

A precise balance scale, as in a doctor's office, reads the same in different locations because it compares you with the standard masses on its beams. A typical bathroom scale is not precise enough to reveal this difference.

P5.8

The force on the car is given by $\sum \vec{F} = m\vec{a}$, or, in one dimension, $\sum F = ma$. Whether the car is moving to the left or the right, since it's moving at constant speed, $a = 0$ and therefore $\sum F = \boxed{0}$ for both parts (a) and (b).

P5.9

We find the mass of the baseball from its weight: $w = mg$, so $m = w/g = 2.21 \text{ N}/9.80 \text{ m/s}^2 = 0.226 \text{ kg}$.

- (a) We use $x_f = x_i + \frac{1}{2}(v_i + v_f)t$ and $x_f - x_i = \Delta x$, with $v_i = 0$, $v_f = 18.0 \text{ m/s}$, and $\Delta t = t = 170 \text{ ms} = 0.170 \text{ s}$:

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