

Answer Key

Exercises

1. a. $y = 3x$, or pressure = 3(torr/Kelvin) \times temperature(Kelvin)
b. 0 torr
2. a. 14.7 lb/in²
b. This value represents the atmospheric pressure.
3. a. $1.3 \frac{\text{m/s}}{^\circ\text{C}}$
b. 14.6°C
4. a. No, it is curved.
b. The car is going faster and faster.

Challenge: $y = 10x^2 + 5x + 0$

Challenge: The “ b ” represents the initial speed before the car started down the inclined plane.