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180000000. km
= 1.8×10^7 km

- a) 1.80×10^7 km
b) 1.08×10^9 km
c) 2.59×10^{10} km
d) 9.5×10^{12} km

2. $6.2 \times 10^2 \frac{\text{km}}{\text{h}}$

3. $1.0 \times 10^{-5} \frac{\text{m}}{\text{s}}$

4. 3.84×10^5 km

5. 5.3×10^2 km

6a) $4.0 \frac{\text{m}}{\text{s}}$

b) $1.0 \frac{\text{m}}{\text{s}^2}$

c) $v = (1.0 \frac{\text{m}}{\text{s}^2})t + 4.0 \frac{\text{m}}{\text{s}}$

7a) $38 \frac{\text{m}}{\text{s}}$

b) 47m

c) 120m

8a) 37.8m to stop

b) 50.4m "

9. 10.4s

10a) $24.6 \frac{\text{m}}{\text{s}}$

b) $88.5 \frac{\text{km}}{\text{h}}$

11. $-20.0 \frac{\text{m}}{\text{s}^2}$

12. 8.20s

13a) $3.5 \frac{\text{m}}{\text{s}}$

b) $-0.25 \frac{\text{m}}{\text{s}^2}$

c) $24.5 \frac{\text{m}}{\text{s}^2}$

d) $v = (24.5 \frac{\text{m}}{\text{s}^2})t + 3.5 \frac{\text{m}}{\text{s}}$

15. $3.0 \frac{\text{m}}{\text{s}^2}$