P. #10

Ch. 1 - Pg. 18

$c = 2.99792458 \times 10^8$ m/s

a) $c = 3.00 \times 10^8$ m/s

b) $c = 2.9979 \times 10^8$ m/s

c) $c = 2.997925 \times 10^8$ m/s

P #12

a) $r = 3.5$ cm

$C = 2 \cdot \pi \cdot r$

$= 2 \cdot \pi \cdot (3.5\text{ cm})$

$\boxed{C = 22\text{ cm}}$

b) $r = 4.65$ cm

$A = \pi r^2$

$= \pi \cdot (4.65\text{ cm})^2$

$\boxed{A = 67.9\text{ cm}^2}$

P #13

$l_1 = 93.46$ cm

$l_2 = 135.3$ cm

$l = l_1 + l_2$

$= 93.46\text{ cm} + 135.3\text{ cm}$

$= 228.76$ cm

(change to 1 decimal place)

$\boxed{l = 228.8\text{ cm}}$