

HW 27

Chp 6 word problems

① $232 = 4\pi r^2$
 $r = 4.3$

② $\left(\frac{1.087}{.4430}\right)^{\frac{1}{60}} - 1 = .023$
 2.3%

③ a) $f(x) = x - 10$

b) $g(x) = .9x$

c) $f(g(x)) = .9x - 10$

d) $g(f(x)) = .9(x - 10)$

100 ago - better for me

\$81

d) if \$100

⑥ $900 = \frac{4}{3}\pi r^3 = 5.99$

⑦ $E = .814190$

$\frac{E}{.81419} = 0$

⑧ $P = 35t^{-.192}$
 inverse $\left(\frac{P}{35}\right)^{\frac{1}{-.192}} = t$

$\frac{250}{.81419} = 0$

$0 = 307.05$

⑨ $R = \frac{3}{8}L - 5$
 $\frac{8}{3}(R + 5) = L$
 $@19 = R$ $L = 38.4$

⑩ $d = \sqrt{625 + h^2}$
 $100 = \sqrt{625 + h^2}$
 $10,000 = 625 + h^2$
 $9375 = h^2$
 $h = 96.83$

⑪ $54.5 = 6.3\sqrt{1013 - p}$
 $74.84 = 1013 - p$
 $p = 938.16$