

1.3

28)

$$A = Pa^x$$

$$9.5 = Pa^1$$

$$\frac{.5}{a^{-1}} = \frac{P}{a^1}$$

$$.5a = P$$

$$\frac{9.5}{.5} = \frac{.5a \cdot a}{.5}$$

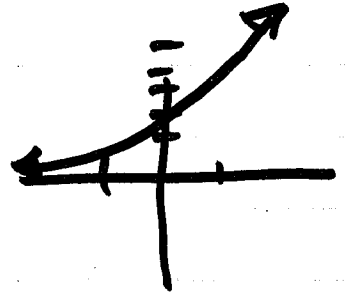
$$9 = a^2$$

$$\pm 3 = a$$

$$a = 3$$

$$5(3) = P$$

$$15 = P$$



31)

$$A = 1(2)^x$$

$$= 2^{98}$$

$$\approx 2.815 \times 10^{14}$$

24 hr. 23) $A = 6.6 \left(\frac{1}{2}\right)^x$

$$A = 6.6 \left(\frac{1}{2}\right)^{x/14}$$

x = #
14 days
int.
x days

30)

$$\frac{A}{P} = \frac{Pe^{rt}}{P}$$

$$3 = e^{rt}$$

$$3 = e^{.0595t}$$

38) $B = 100e^{(.093)(6)}$