HW#24 4.3 12, 24, 26, 28, 32, 34, 40, 52, 60, 94

$$e^2 = \chi + 1$$

24) a)
$$\log_{5} 125 = \log_{5} 5^{3} = 3$$

b) $\log_{49} 7 = \log_{49} 49^{1/2} = \frac{1}{2}$
c) $\log_{9} \sqrt{3} = \log_{9} 3^{1/2} = \log_{9} (9^{1/2})^{1/2} = \log_{9} 9^{\frac{1}{4}} = \frac{1}{4}$

26)
$$e^{\ln \pi} = \Upsilon$$

b) $10^{\log 5} = 5$
c) $10^{\log 87} = 87$

b)
$$\log_{4} x = 2$$
 $\log_{4} x = 2$ $\log_{4} x = 2$

$$34/\log_x 1000 = 3$$
 => $x^3 = 1000$ => $x = 10$

b)
$$\log_{x} 25 = 2$$
 $\Rightarrow x^{2} = 25 \Rightarrow x = 5$

