1.6 #3 30 ln
$$\sqrt{e}$$
 + 16 ln $e^{1/8}$

= 30 ln $e^{1/2}$ + 16 ln $e^{1/8}$

= 30 ln e + 16 ln e = 15+2=(17)

#7 ln (x+16) = ln(x) + ln (16)

ln (x+16) = ln (16x)

eln (x+16) = e ln (16x)

eln (x+16) = e ln (16x)

 $= e^{1/4}$

13 let $y = e^{1/4}$
 $= e^{1/4}$

#15
$$2^{0.05t+2} = 124$$

 $ln(2^{0.05t+2}) = ln 124$
 $(0.05t+2) (ln 2) = ln 124$
 $0.05t = (ln 124) - 2 = (ln 124) - 2/0.05$