**Solve each equation or inequality. Round to four decimal places**

1. $\ln(x+2)=3$

$e^{\ln(x+2)}=e^3$

$x+2=e^3=20.0855$

$\boxed{x=18.0855}$

2. $5e^{2x}+1\geq 7$

$5e^{5x}\geq 6$

$e^{5x}\geq \frac{6}{5}$

$\ln e^{5x}\geq \ln\frac{6}{5}$

$5x\geq .1823$ , $\boxed{x\geq .0365}$

3. $\ln(-2x)=7$

$e^{\ln(-2x)}=e^7$

$-2x=1096.6332$

$\boxed{x=-548.3166}$

4. $-3e^x+10<8$

$\quad -10 \quad -10$

$-3e^x<-2$

$e^x>\frac{2}{3}$

$\ln e^x>\ln\frac{2}{3}$

$x>\ln\frac{2}{3}$

$\boxed{x>-.4055}$

5. Write an equivalent logarithmic equation for $e^4=8x$.

$\boxed{\ln 8x=4}$

6. Evaluate $e^{\ln 2x}$.

$e^{\ln 2x}\boxed{=2x}$

7. A substance decays according to the equation $y=ae^{-0.1216t}$, where $t$ is in years. Find the half-life of the substance. Round to the nearest tenth.

$y=\frac{1}{2}a$

$\frac{1}{2}a=ae^{-.1216t}$

$0.5=e^{-.1216t}$

$\ln 0.5=\ln e^{-.1216t}$

$\ln 0.5=-.1216t$

$t=\dfrac{\ln 0.5}{-.1216}=5.7002$

$\boxed{t=5.7\text{ years}}$

8. A piece of machinery valued at \$250,000 depreciates at a fixed rate of 12% per year. After how many years will the value have depreciated to \$100,000?

$y=a(1-r)^t$

$a=250,000$

$y=100,000$

$r=12\%=.12$

$100,000=250,000(1-.12)^t$

$.4=.88^t$

$\log .4=\log .88^t$

$\log .4=t\log .88$

$t=\dfrac{\log .4}{\log .88}$

$t=7.1679$ $\boxed{t=7.2\text{ years}}$

9. The Smiths bought a house worth \$400,000. Assuming that the house will appreciate 5.6% per year, what will the house be worth in twelve years? Round to the nearest dollar.

$y=a(1+r)^t$

$a=400,000$

$r=5.6\%=.056$

$t=12$

$y=400,000(1+.056)^{12}$

$=400,000(1.056)^{12}$

$=769178.2756$

$\boxed{=\$769,178}$

10. A certain strain of bacteria grows from 40 to 326 in 120 minutes. Find the constant $k$ for this type of bacteria, then write the equation for modeling this exponential growth.

$y=ae^{kt}$

$a=40$

$y=326$

$t=120$ min

$326=40e^{k\cdot 120}$

$8.15=e^{120k}$

$\ln 8.15=\ln e^{120k}$

$\ln 8.15=120k$

$k=\dfrac{\ln 8.15}{120}\boxed{=.0175}$

$\boxed{y=ae^{.0175t}}$

# [Algebra Problems With Answers](#)

**George Abbott Osborne**

**Algebra Problems With Answers:**

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