

Solve each equation or inequality. Round to four decimal places

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

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

$$x+2 = e^3 = 20.0855$$

$$x = 18.0855$$

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

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

$$-2x = 1096.6332$$

$$x = -548.3166$$

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

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

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

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

$$5x \geq .1823, x \geq .0365$$

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

$$-10 \quad -10$$

$$-3e^x < -2$$

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

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

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

$$x > -.4055$$

$$5. \text{ Write an equivalent logarithmic equation for } e^4 = 8x.$$

$$\ln 8x = 4$$

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

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

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.

$$\frac{1}{2}a = ae^{-0.1216t}$$

$$0.5 = e^{-0.1216t}$$

$$\ln 0.5 = \ln e^{-0.1216t}$$

$$\ln 0.5 = -.1216t$$

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

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

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?

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

$$.4 = .88^t$$

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

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

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

$$t = 7.1679$$

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

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

$$a = 250,000$$

$$y = 100,000$$

$$r = 12\% = .12$$

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.

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

$$a = 400,000$$

$$r = 5.6\% = .056$$

$$t = 12$$

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

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

$$= 769,178.2756$$

$$= \$769,178$$

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.

$$y = ae^{kt}$$

$$a = 40$$

$$y = 326$$

$$t = 120 \text{ min}$$

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

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

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

$$\ln 8.15 = 120k$$

$$k = \frac{\ln 8.15}{120} = .0175$$

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

Answer Key For Algebra Homework

Sasha Hu



Answer Key For Algebra Homework:

Answer Key For Algebra Homework Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Answer Key For Algebra Homework**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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