

Exercise 4

Name _____

Mailbox _____

Solve:

1. $\ln 3.4 =$

2. $e^{4.2} =$

3. $\ln(e^{10.7}) =$

4. $e^{(\ln 10.7)} =$

5. $\ln(4^3) =$

6. $\ln(21 \times 4) =$

7. $\ln\left(\frac{3}{4}\right) =$

Graph:

8. $y = 2 + 2e^{2x}$

9. $y = 3\ln(x + 5)$

Solve the following equations and check your solutions:

10. $\ln(x + 5) = 2$

11. $e^{2x-3} + 5 = 10$

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12. $\ln(1 + e^{-3x}) = 7$

13. $5 + \exp(-2x) = \ln(3)$

14. (Optional) Here is a table relating vaccination rates and disease-free rates for one year:

		Vaccinated	
		Yes	No
Disease-Free	Yes	77	13
	No	8	2

Estimate the odds ratio for the association between vaccination and disease-free rates and the 95% confidence interval for the odds ratio.