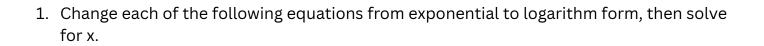
Sept. 22 Worksheet



$$7^{x} = 49$$

5496

$$4^{x} = 64$$

$$3^{x} = 81$$

2. Transform the following into its inverse, then solve for x.

$$e^{x} = 16$$

$$e^{x} = 127$$

$$4(16)^{\times} = 48$$

$$6e^{x} - 24 = 18$$

3. You deposit \$1,500 into a savings account with a simple annual interest rate of 4%. How much interest will you earn in 3 years?

4. A person borrows \$5,000 for 6 months at a simple interest rate of 8% per year. How much interest will they pay?

5. An investment earned \$250 in simple interest over 2 years at an annual rate of 5%. What was the original principal amount?
6. A loan of \$3,000 accrues \$360 in simple interest over a period of 2 years. What is the annual interest rate?
7. What is the present value of a bond that will be worth \$12,000 in 11 months, assuming a simple annual interest rate of 8%?