

HW 5-3
Secondary III Lite

Name: _____
Date: _____ Class: _____

Solve the following equations algebraically

1. $7e^{3x} = 42$

2. $5^{2x} = 15$

3. $\log x^2 = 4$

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

5. $2^x - 6 = 10$

6. $\log_4(x - 5) = -1$

7. If the price of a gallon of gas is currently \$3.25, how long will it take for the price to rise to \$4.00 if the rate of inflation is 10.5%?

$$4 = 3.25(1 + .105)^t$$