

Unit 3 Solving Equations Practice

Name: _____

Solve each question algebraically.

1. $7^{x-2} = 2(3)^{2x+1}$

2. $\log_3(x+6) = \log_3 x + \log_3(x+2)$

3. $2\log_2(x+2) - \log_2(3x-2) = 2$

4. After ten days, a 250 mg sample of phosphorus-32 decays to 218.75 mg. What is the half-life, correct to two decimal places?