**Openers #5 Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Each day when you come into class, there will be a problem projected for you to complete. Find the appropriate box to complete the problem in and work on it when you arrive.*

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| **Date:**  **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 5-1  Solve. 67-x = 62x+1  Solve. 9(x^2) = 33x+2  Solve. 92x ●()x+2 = 27 ● (3x)-2 |
| **Date:**  **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 5-2  4x - 4  2x2 – 5x  4x - 4  2x2 – 5x  If $20,000 is deposited in a savings account that pays interest at a rate of 8% per year compounded continuously, find the balance after 5 years.  An investment of $10,000 increased to $28,576.51 in 15 years. If the interest was compounded continuously, find the rate.  Solve. e(x^2) = e2x+3 |
| **Date:**  **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 5-3  Change to log form. Cp = d  Change to exponential form. log6(2x-1) = 3  Solve for t using logs. 2at/3 = 5  Find the number. log3 243  Find the number. eln8  Solve. log4x = |
| **Date:**  **\_\_\_\_ / \_\_\_\_/ \_\_\_\_**  **Date:**  **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 5-4  Express in terms of logs.   1. log3 2. log   Write the expression as one log.   1. log4w 2. 5logax - loga(3x-4) – 3loga(5x+1)   Solve.   1. log(x+2) – log x = 2 log4 2. log4(3x+2) = log45 + log43   5-5  Estimate log220  Find the exact solution using logs.   1. 42x+3 = 5x-2 2. 52x+1 = 6x-2 |