**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:** **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 5-1Solve. 67-x = 62x+1Solve. 9(x^2) = 33x+2Solve. 92x ●($\frac{1}{3}$)x+2 = 27 ● (3x)-2 |
| **Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 5-24x - 42x2 – 5x4x - 42x2 – 5xIf $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:** **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 5-3Change to log form. Cp = dChange to exponential form. log6(2x-1) = 3Solve for t using logs. 2at/3 = 5Find the number. log3 243Find the number. eln8 Solve. log4x = $\frac{-3}{2}$ |
| **Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_\_****Date:** **\_\_\_\_ / \_\_\_\_/ \_\_\_\_** | 5-4Express in terms of logs.1. log3 $\sqrt[5]{y}$
2. log $\frac{\sqrt[3]{2}}{x\sqrt{y}}$

Write the expression as one log.1. $\frac{1}{3} $log4w
2. 5logax - $\frac{1 }{2}$loga(3x-4) – 3loga(5x+1)

Solve.1. log(x+2) – log x = 2 log4
2. log4(3x+2) = log45 + log43

5-5Estimate log220Find the exact solution using logs.1. 42x+3 = 5x-2
2. 52x+1 = 6x-2
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