Int 3 MA C5 DDAY Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_\_\_ Group \_\_\_\_\_\_

NO CALCULATOR

1. Sketch. Label asymptotes and the locator point. Find the inverse and then sketch on the same axis.

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| a.  Equation of Inverse: | | b.  Equation of Inverse: | |
| 1. Sketch. Find the asymptote, x-intercept and domain. | | | |
| |  | | --- | | Domain: | | x-intercept: | | Vertical asymptote: |   a. | | |  | | --- | | Domain: | | x-intercept: | | Vertical asymptote: |   b. | |
| 1. Solve for x: | | | |
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| 1. Find the inverse algebraically. Show work. | | | |
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| 1. Draw a normal curve. Write what you’d enter into the calculator. DO NOT SOLVE.  |  |  | | --- | --- | | a. In the lovely town of Odenton, MD, the mean high temperature for the month of September is 78ºF with a standard deviation of 6°. Assuming that the temperature data is normally distributed, how many days in September would you expect the high temperature to be between 84° and 90º? | b. Mr. Templin promised that if we all score at least 50% on the test, we will pass. Sadly, the test was a killer, and he said the mean was 46% with a standard deviation of 4%. If the scores were normally distributed, what percentage of the class passed? | | c. Math Club sells their famous chocolate chip cookies with a mean of 10.5 ounces and a standard deviation of 0.75. If the data is normally distributed, what percentage of the Math Club’s cookies are below 8 ounces? | d. My πpod has an average playtime of 9.5 hours with a standard deviation of 1.5 hours. What score would be the 40th percentile? | | | | |
| 1. Given 2. Find 3. Find | | 1. Calculate the vertex of | |
| 1. Solve the system algebraically | | 1. Find the x-intercept of | |
| 1. Solve | | 1. Solve | |