## H. Math 3 Remediation Sheet for Unit 3

Name


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| 11) Suppose you invest $\$ 700$ in the bank and it is compounded continuously at 4.25\%. How long will it take to double? | 12) A cup of coffee contains 140 mg of caffeine. If caffeine is eliminated from the body at a rate of $12 \%$ per hour, how long will it take for half of this caffeine to be eliminated? |
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| 13) Suppose you invest \$850 in a bank at 3.25\% | 14) Evaluate : $\log _{2} 8-\log _{2} 4$ |
| 15) Harry purchased a car for $\$ 26,700$. The value of the car decreases by $13 \%$ every year. | 16) Write a function that translates $y=3^{x}$ five units to the left and 4 units up |
| 17) Solve: $x^{2}-6 x-3=0$ | 18) Solve: $2\|x-4\|-3>9$ |
| 19) Find $f^{\circ} g(x)$ if $f(x)=x^{2}-7 \quad \&$ $g(x)=3 x-2$ | 20) Find $f^{-1}(x)$ if $f(x)=7 x-2$ |


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