HONORS PRECALC LEARNING TARGET **1st Semester** STUDY GUIDE SHEET Name: _____

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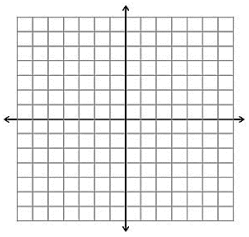
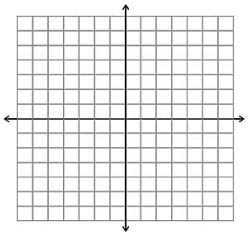
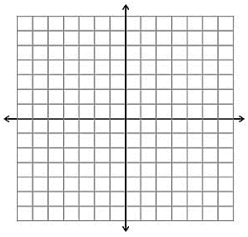
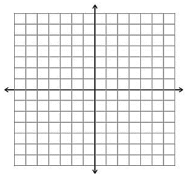
|---|---|---|
| 1.1 – write equations for lines from 2 pts and parallel or perpendicular | 1.2 – interpret and evaluate with function notation | 1.3ab – determine the domain and range of a function |
| 1.3c – graph piecewise functions  | 1.4 – graph using function transformations  | 1.5 – evaluate function combinations and compositions |
| 1.6 – find the inverse function and its graph  | 2.1 – graph and write quadratics in vertex form  | 2.2 – graph polynomials in factored form |
| 2.3a – factor polynomials through long or synthetic division | 2.3b – use Rational Zero/Root Test to list all possible rational roots for a polynomial | 2.4a – do arithmetic with complex numbers |
| 2.4b – solve equations with complex answers | 2.5 – write equations for polynomials (no complex roots) | 2.6 – identify asymptotes and intercepts of rational functions |

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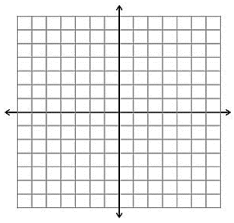
| 2.7 – graph rational functions  | 3.1a – graph exponential functions | 3.1b – compute compounding exponential value problems |
| 3.2a – evaluate logs based on definition | 3.2b – graph logs and understand connection to exponential graphs | 3.3 – simplify log expressions |
| 3.4 – solve log and exponential equations | 3.5 – write real-world exponential equations | 4.1 – convert between radians and degrees and graph angles |
| 4.2 – find trig values on unit circle | 4.3ac – solve triangle problems using trig | 4.3b – prove using basic trig identities |

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| 4.4 – given one trig value on circle (and the quadrant) find others | Use this space for anything else you feel you need on your sheet. |