FST Name:

2.1 Notes – Linear & Quadratic Review Date: Block:

***Linear Functions Review***

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| Slope-Intercept Form  | Point Slope Form  | Standard Form  |



Remember how to graph: (from slope intercept) x – 2y = 1

1.

2.

3.

|  |  |
| --- | --- |
| How to find the x – intercept:  | How to find the y – intercept:  |
| Example: 4x – 5y = 35 | Example: 4x – 5y = 35 |

Domain: Range:

|  |  |
| --- | --- |
| Parallel Lines:  | Perpendicular Lines:  |
| Example:  | Example:  |

**Solving Systems of Equations:**

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| --- | --- |
| **Graphing:** $$y-2x=3$$$$y=-4x-3$$ | **Substitution:** $$x+8y=-15$$$$7x+8y=-9$$**Elimination:** $$6x+2y=-6$$$$7x+4y=8$$ |

***Quadratic Functions***

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| --- | --- | --- |
| Standard Form | Vertex Form  | Intercept Form  |

|  |  |
| --- | --- |
| How to find the x – intercept:  | How to find the y – intercept:  |
| Example: $\left(2x-1\right)\left(x+5\right)=y$ | Example: $2x^{2}-5x+6=y$ |

How to find the Vertex: (max or min) Example: $y=x^{2}-2x-5$

**Solving Quadratics**

|  |  |
| --- | --- |
| **Square Root:** $5-6x^{2}=113$ | **Factoring:** $3x^{2}+6x=42$ |
| **Completing the Square:** $3x^{2}+6x-42=0$ | **Quadratic Formula:** $6x+9=2x^{2}$ |