# ALGEBRA I (COMMON CORE) STUDY SHEET

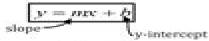
2017 Cohen Math Prep

#### LINEAR EQUATIONS



\*Defined by: constant rate of change AKA slope

Slope-Intercept Form:

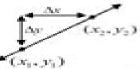


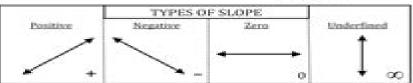
Point-Slope Form:

$$y - y_1 = m(x - x_1)$$

#### Slope Between 2 Points:





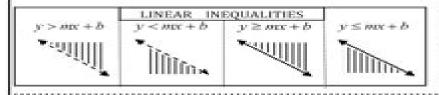


 $m_i = m$ 



Perpendicular Slopes

$$m_{\perp} = -\frac{1}{m}$$



# Types Of Number

- Natural #'s: {1, 2, 3, ...}
- Whole #'s: {0, 1, 2, 3, ...}
- Integers: {...-3, -2, -1, 0, 1, 2, 3, ...}
- Rational #'s: Ratio of any 2 integers 'a' and 'b'
   (in the form: \(\frac{\alpha}{\Lambda}\))
- Irrational #'s: Not rational... "weird" #'s like:
   π. √2. −√6. σ
- . Real #'s: The set of all Rationals & Irrationals

## QUADRATIC EQUATIONS

Care BOT

Standard Form:

$$y = ax^2 + bx + c$$

Vertex Form:  $y = a(x-h)^2 + k$  Same Opposite Sign Vertex is at: (h, k)

\* "cr" tells if parabola opens up or down

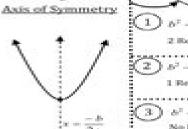


#### 3 Methods to "Solve" Quadratic Equations:

- " "Solutions" AKA: "roots", "zeros", or x-intercepts"
- 1) Factoring (easiest method when possible)
- $0 = (x m)(x n) \iff x = m$  & x = n
- if solving an equation in the form: 0 = x² + bx + c
   find 'm' and 'n' such that: m·n = c
   m + n = b
- remember difference of squares: x<sup>2</sup> m<sup>2</sup> = (x + m)(x m)
- 2) Completing the Square

$$x^2 + bx = c$$
  $\Rightarrow$   $(x + \frac{b}{2})^2 = c + (\frac{b}{2})^2$ 

3) Quadratic Formula







# **Regents Practice Test 1 Algebra Answers**

**Regents Exambusters** 

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