

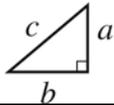
**End-of-Course Assessment**  
**ISTEP+: Algebra I Graduation Examination**  
**Reference Sheet**

Equation of a Line		
<b>Slope-Intercept Form:</b>  $y = mx + b$  <b>where <math>m</math> = slope and <math>b</math> = y-intercept</b>	<b>Point-Slope Form:</b>  $y - y_1 = m(x - x_1)$  <b>where <math>m</math> = slope and <math>(x_1, y_1)</math> is a point on the line</b>	<b>Standard Form of a Linear Equation:</b>  $Ax + By = C$  <b>where <math>A</math> and <math>B</math> are not both zero</b>

Slope of a Line
<p>Let <math>(x_1, y_1)</math> and <math>(x_2, y_2)</math> be two points in the plane.</p> $\text{slope} = \frac{\text{change in } y}{\text{change in } x} = \frac{y_2 - y_1}{x_2 - x_1}$ <p>where <math>x_2 \neq x_1</math></p>

Standard Form of a Quadratic Function
$f(x) = ax^2 + bx + c$ <p>where <math>a \neq 0</math></p> <p>axis of symmetry : <math>x = -\frac{b}{2a}</math></p>

Quadratic Formula
$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ <p>where <math>ax^2 + bx + c = 0</math> and <math>a \neq 0</math></p>

Pythagorean Theorem
 $a^2 + b^2 = c^2$