

Transitive property of inequality If $a > b$ and $b > c$ then $a > c$

Triangle inequality : the sum of any two sides of a triangle must be longer than the third side

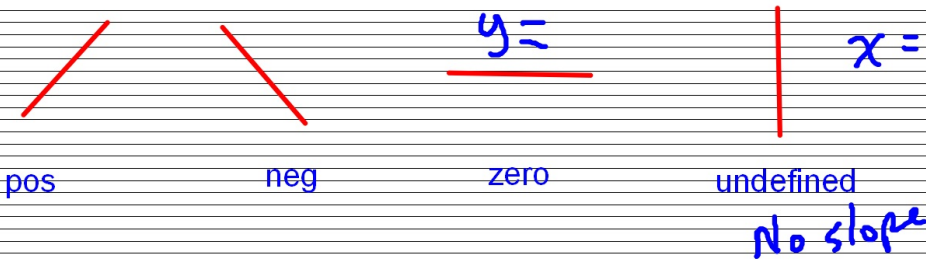
The exterior angle of a triangle is equal to the sum of the remote interior angles

The sum of the exterior angles of a polygon is 360

The sum of the interior angles of a polygon is $180(n-2)$ n - number of sides

The smallest angle of a triangle is opposite the shortest side

Slopes - $\Delta y / \Delta x$



Inequalities and Coordinate Geometry

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Point-slope equation $y - y_1 = m(x - x_1)$

Slope-intercept form $y = mx + b$

Midpoint $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

Distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

Slope formula = $\frac{y_2 - y_1}{x_2 - x_1}$

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