

Distance between 2 points
 $D = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

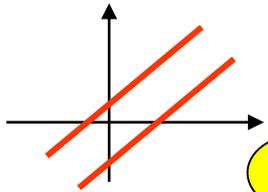
Terminology
 Median - midpoint
 Bisector - midpoint
 Perpendicular - Right Angled
 Altitude - right angled

$m_1 \cdot m_2 = -1$

Possible values for gradient

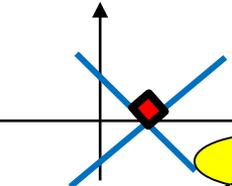
Straight Line
 $y = mx + c$

Form for finding line equation
 $y - b = m(x - a)$
 (a,b) = point on line



Parallel lines have same gradient

$m = \text{gradient } m = \frac{y_2 - y_1}{x_2 - x_1}$
 $c = y \text{ intercept } (0, c)$



For Perpendicular lines the following is true.
 $m_1 \cdot m_2 = -1$

$m = \tan \theta$

