Straight Line

Distance between 2 points

or use pythagoras

or use pythagoras

Distance Formula

Perpendicular Gradients

Horizontal/Vertical Gradients

Parallel Lines

Gradients

Lines

Horizontal Lines

Equation

$y=b$

Vertical Lines

$y=b$

$m$ is undefined

Perpendicular Lines

Equation

$y=m \cdot x + c$

$m = 0$

$m \cdot m = -1$

Meet at right angles

Perpendicular Lines

$y=m \cdot x + c$

Matt point ($a,b$)

simplify to $y=m \cdot x + c$

Special Lines

Collinearity

3 points $A, B$ and $C$ lie in a straight line

how to prove collinear

show that $m = m$

$B$ is a common point

as $A, B$ and $C$ are collinear