Cheatography

Linear Relationships Cheat Sheet by maxine3 via cheatography.com/29360/cs/8614/

Formulas		
Straight Line		y=mx+c
Equation of parallel line OR Point of intersection		y-y ¹ =m(x-x ¹)
Midpoint		$([x^1+x^2/2],[y^1+y^2/2])$
Distance Formula		$\sqrt{(x^{2}-x^{1})^{2}+(y^{2}-y^{1})^{2}}$
Gradient of parallel line		m ¹ =m ²
Gradient of perpendicular line		$m^{1}m^{2}=-1 \text{ OR } m^{2}=-1/m^{1} \& -m^{2}=1/m^{1}$
Gradient		m=rise/run OR m=(y²- y ¹)/(x²-x ¹)
Solving Stuf	f	
Finding a rule for a graph	For: (x ¹ ,y ¹) & (x ² ,y ²) ⁴ / ₇ Fi y ¹ =m(x-x ¹)	nd gradient 🦸 Sub into y-
Finding equation of parallel line	# Arrange into y=mx+c # Find values of x,y,m # Sub into y-y=m(x-x) # Solve	
Finding equation of perpendicula r line	Find negative reciproca y=mx+c Solve for c	al of m 🦸 Substitute (x,y) into
Finding point of intersection	Arrange one of the lines into y=mx+c or x= Sub this into the other line Solve for other coordinate	
Shading Half Planes	>above <below< td=""><td></td></below<>	
Horizontal Line	y=b	
Vertical Line	x=a	
Forming Simultaneou s Equations		g pronumerals.

Solving Stuff (cont)

Solving Solve two equations in two pronumerals using: f substitution		
Simulta when one pronumeral is the subject; e.g. $y = x + 4$.		
neous elimination when adding or subtracting multiples of equations		
eliminates one variable.		
If asking for 'through (x,y) perpendicular to x=a, answer y=b e.g perp. tp		

If asking for 'through (x,y) perpendicular to x=a, answer y=b e.g perp. tp x=7 through (0,3) = y=3



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