

Using a picture of your choice, analyse the lines in the picture and provide the set of equations that would allow me to recreate your picture using <https://www.desmos.com/calculator>. You may draw your own picture or use a photograph to generate your picture. Insert the image into the software and estimate where the **lines** (no curves!) should be

You must use a **minimum** of 20 different linear relations to make your picture. In your drawing you must include

- two lines in slope-intercept form,
- two lines in standard form,
- two lines in slope-point form,
- two horizontal lines,
- two vertical lines,
- two lines with positive slope,
- two lines with negative slope,
- two pairs of perpendicular lines (not just horizontal and vertical), and
- two pairs of parallel lines (not just horizontal or vertical).

Points will be awarded based on the complexity of the picture.

When you have completed your project, please share it the Assignments tab in our Microsoft Team.

Checklist:

Done	Type	Line # / Equation	Line #/ Equation
	Slope – Intercept Form		
	Slope – Point Form		
	General Form		
	Horizontal Lines		
	Vertical Lines		
	Positive Slope		
	Negative Slope		
	Perpendicular Lines		
	Parallel Lines		

Your project will be marked on the following rubric. You can follow the links to some previously well done projects:

<https://www.desmos.com/calculator/exrihg5pci>
<https://www.desmos.com/calculator/nmfvcvy8uur>
<https://www.desmos.com/calculator/rtyahsf9cm>

Task	Emerging	Developing	Proficient	Extending
Quantity of equations used	0-9 equations present	10-14 equations present	20 equations present	More than 20 equations present
Types of equations used	0-4 criteria met	5-8 criteria met	all 9 criteria met	x
Checklist	missing	partially complete	complete	x
Quality and Complexity of work.	minimum requirements met	missing some project requirements	met all project requirements	Exceeded all project requirements

Overall Grade:	
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