



Graphs without the graft

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Geogebra: <https://www.geogebra.org/u/jbrennanrhodes>

Activity 1 - Motion graphs

- Show this geogebra file:
- <https://ggbm.at/hhUU29f3>
- Ask students to sketch the motion graphs.
- Extension: How can the motion graphs of the following be sketched?
- <https://ggbm.at/tnmzzbwc>

Favourite graphs

- Here are a couple of mine, what are yours?
- Graph 1: Poisson football
- <https://www.geogebra.org/m/y2wfhts3>
- Graph 2: Infinitely crossed asymptote
- <https://ggbm.at/mcauyjxx>

Activity 2: Sketching on balloons

- Three points define a circle... unless they are colinear... or do they?
- A line is in infinite circle?
- Define a 'point at infinity' and sketch graphs on balloons.
- See the following Geogebra file:
- <https://www.geogebra.org/m/qadqcvcn>

Activity 2: Sketching on balloons

- Try some other graphs on balloons with asymptotes using this geogebra file:
- <https://www.geogebra.org/m/aqg3uyty>

- $y = \frac{x+1}{x-1}$
- $y = \frac{(x+2)(x-1)}{(x+1)(x-2)}$
- $y = \tan(x)$



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