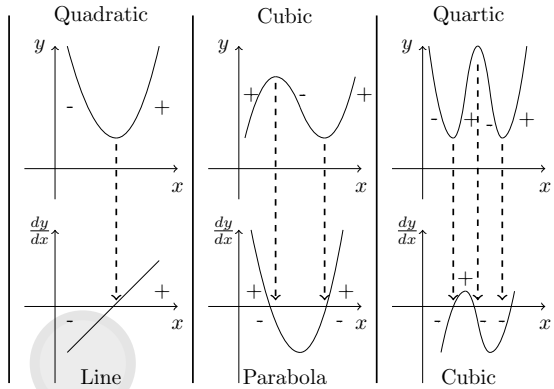
GRAPHING GRADIENT FUNCTIONS:

To graph $f'(x)$ graphs, identify the

- Positive gradient
- Zero gradient (stationary points)
- Negative gradients

You can use your ruler to determine the direction of the slant/slope to help you!



12.1 WORKED EXAMPLE

a) Draw a function, any function

b) Write in the gradients as +, 0, -

c) Fill out the table by observing the graph.

Feature of the function	**Feature of the gradient function**
There is a stationary point	There is an x-intercept
The graph increases	The graph lies above the horizontal axis
The graph decreases	The graph lies below the horizontal axis
There is an inflexion point	There is a stationary point

12.2 WORKED EXAMPLE

Graph the gradient function of the function below and use the terms stationary, turning point, positive and negative gradient to describe the features.