relationship between graphs teacher guide

| **Graph Shape** | **Modification required to linearize graph** | **Algebraic Representation** |
| --- | --- | --- |
| **A picture containing screenshot, black, darkness  Description automatically generated** | None | *y* = *b*,  or  *y* is constant |
| A blue line on a black background  Description automatically generated with medium confidence | None | *y* = *mx* + *b* |
| A blue line on a black background  Description automatically generated with low confidence | As x increases, y decreases. Y is inversely proportional to x. |  |
| **A blue curved line on a black background  Description automatically generated with low confidence** | Y is proportional to the square of x. | *y* = *mx*2 + *b* |
| A blue curved line on a black background  Description automatically generated with medium confidence | The square of y is proportional to x. | *y*2 = *mx* + *b* |