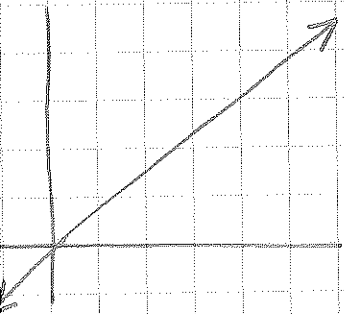


Inv. 1.2

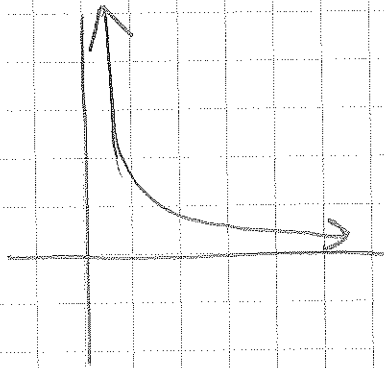
Linear

$$y = mx + b$$



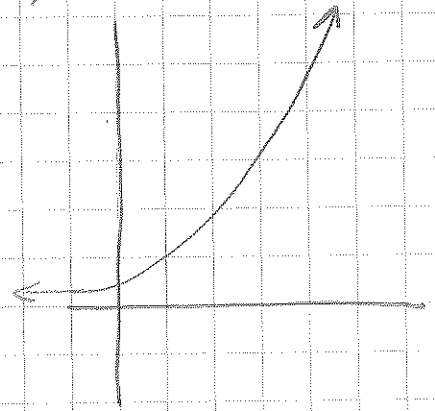
Inverse -variation

$$y = \frac{k}{x}$$

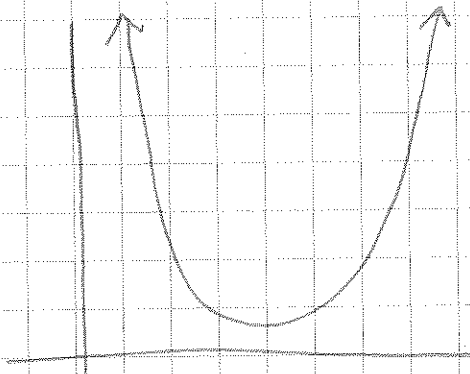


Exponential

$$y = a \cdot b^x$$



Quadratic Function



parabola

Ⓐ

1. U-shaped curve that opens down has symmetry
2. The largest area looks to be 400sqm
20m by 20m

3. 300m^2 300m^2

a length of 10m. means the width would be 30m

a length of 30m means the width of 10m.

That produces the same rectangle

4. 5m by 35m

5. 80m Using the dimensions

$$\begin{array}{l} 5 \times 35 \\ 10 \times 30 \end{array}$$

both produce a perimeter of 80m.

(B)

1. The areas increase until they reach 36m^2 then they go back down

There is symmetry. The line of symmetry is drawn through 36

2. 24meters Using the length and area ...

$$\frac{\text{Area} - 2(\text{length})}{2} = \text{width}$$

3. $36\text{m}^2 \Rightarrow 6\text{m} \times 6\text{m}$

Not exact

4. 24m perimeter / area of 16m^2 1.5×10.5

5. perimeter of 24 area of 35.5 6.5×5.5