

TIDAL ROC

GRAPHING FUNCTIONS

eg $y = \frac{x}{1-x}$

Type: hyperbolic basically

Intercepts: x-int @ $y=0$ $x=0$

y-int @ $x=0$ $y=0$

Domain & Range: $1-x \neq 0$

$$x \neq 1$$

Aymptotes: With y the subject, $x=1$

With x the subject $x = \frac{y}{y+1}$, $y=-1$

Large values: $\lim_{x \rightarrow \pm\infty} \frac{x}{1-x} = -1$ using L'Hopital's Rule

Regions: See opposite \rightarrow

Odd or even: $f(-x) \neq -f(x)$

Calculus: To find stationary points, concavity, etc

BUT already the student has a good idea of the important features of the graph of the function.

