

Using Technology!!!! A.k.a your graphics calculator or IPAD!

Use your GDC to find a table of values for:

a.)  $y = 3x$  starting from 0 in increments of 1

b.)  $y = 3x$  starting from -50 in increments of 0.1

c.)  $y = 0.5x^3$  starting from 2 in increments of 0.5

d.) Determine the roots (zeroes or x-intercepts) for  $y = x^3 + 2x^2 - 5x - 6$ .

e.) Determine the y-intercept for  $y = x^3 + 2x^2 - 5x - 6$ .

f.) i.) Determine the equation of any asymptotes for  $y = x^3 + 2x^2 - 5x - 6$

ii.) Find the “turning points” (local minimum or local maximum) for  
 $y = x^3 + 2x^2 - 5x - 6$

g.) Determine the equation of any asymptotes for  $h(x) = \frac{3}{x}$

h.) Determine the equation of any asymptotes for  $g(x) = \frac{4}{x-1} + 2$ .

i.) Solving ANY function.....

For the equations in f.) and g.) where does  $h(x) = y$

That is.....  $\frac{3}{x} = x^3 + 2x^2 - 5x - 6$

One more example.....

$$f(x) = \frac{4x}{x^2 - 4x - 5}$$

Find the asymptotes:

For explicit calculator instructions for Texas instruments and Casio devices, see page 22 of your text book.