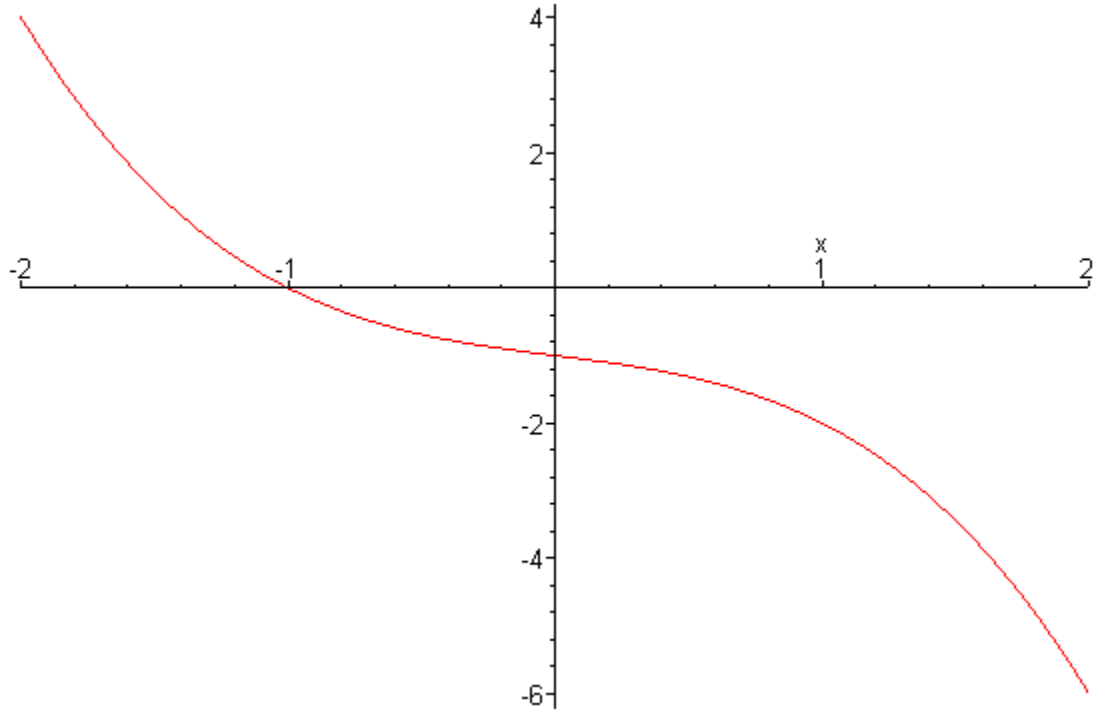
Function: $f(x) = -\frac{x^3}{2} - \frac{x}{2} - 1$

Write down the formula for Newton Raphson Method :

_____

Newton-Raphson Method: Start with p0=1. Illustrate first two or three iterations graphically.



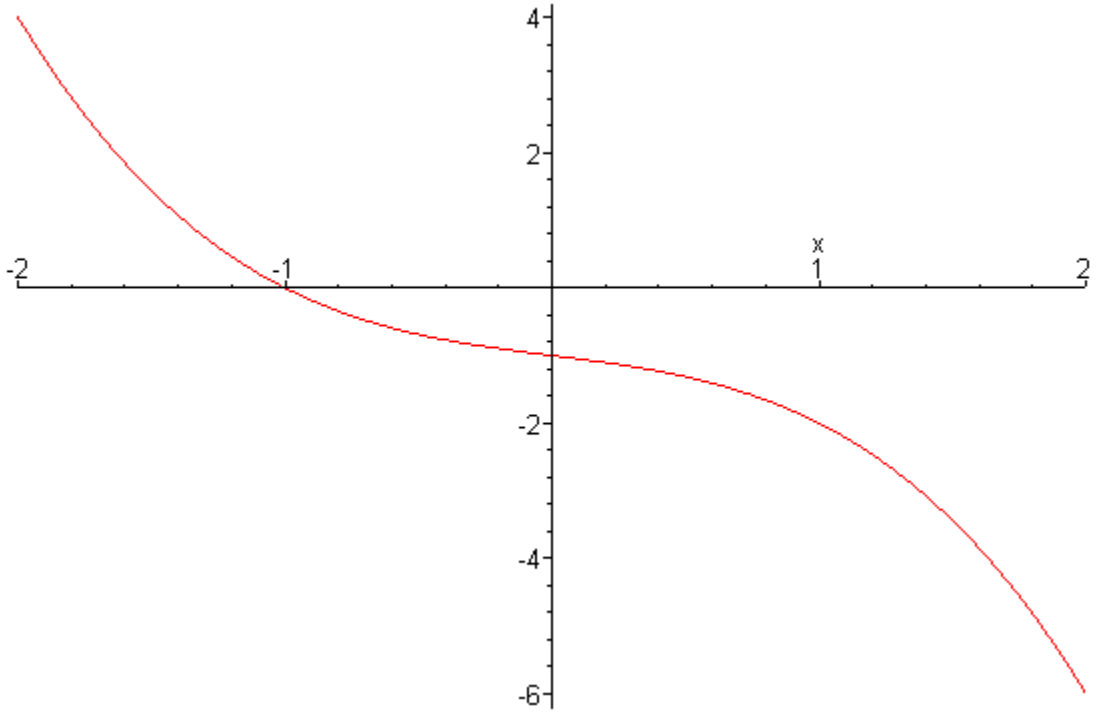
n	p_n	$f(p_n)$	$f'(p_n)$
0			
1			
2			
3			
4			

Function: $f(x) = -\frac{x^3}{2} - \frac{x}{2} - 1$

Write down the formula for Secant Method:

_____

Secant Method: Start with $p_0 = 2$, $p_1 = 1$. Illustrate first two iterations on graph below



Complete table for Secant method

n	p_{n-1}	p_n	$f(p_{n-1})$	$f(p_n)$	*NEXT PT* p_{n+1}
1					
2					
3					
4					
5					