Subject: Re: Math Question #1 Posted by CarrierII on Sun, 09 Nov 2008 15:32:30 GMT View Forum Message <> Reply to Message

If Y = Sin(5X) / 2 - 2 \* Cos(2X)

then as  $X \rightarrow 0$ ,  $Y \rightarrow$  infinity.

If X = 0 then

 $\operatorname{Sin}(5X) = \operatorname{Sin}(0) = 0.$ 

 $2 - 2\cos(2^*0) = 2 - 2\cos(0) = 2 - 2(1) = 0$ . - Can't divide by zero!

Thus if X is almost 0, we have

Sin(5X) / 2 - 2Cos(~0) which is  $Sin(5X) / 2 - 2^{*}(~1)$  which is Some number / Some other number < 1 and close to 0. This causes the whole expression to increase in value because you're dividing by a fraction.