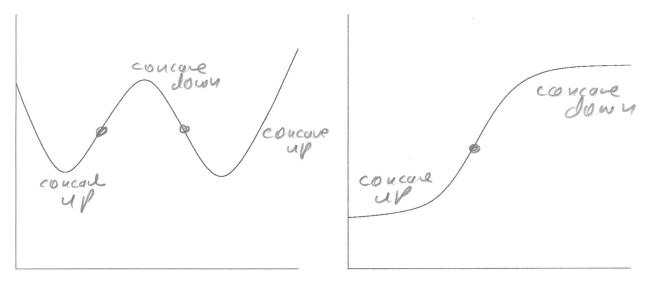
**Quiz #25** 

Name: K-E \( \section \)

You must show your work to get full credit.

1. Label the inflection points on the following two graphs.



2. Let  $f(x) = 2x^3 - 6x^2 + 4x + 2$ . Find the inflection point(s) on y = f(x) and give both the x and y coordinates.

Inflection point(s) are \_\_\_\_(1,3)

 $\beta'(x) = 6x^2 - 12x + 4$   $\beta''(x) = 12x - 12 = 0$  when 12x = 12 x = 1  $\frac{1}{12} = 12x - 12 = 0$  when 12x = 12 x = 1  $\frac{1}{12} = 12x - 12 = 0$  when 12x = 12 x = 1  $\frac{1}{12} = 12x - 12$  concare up  $\frac{1}{12} = 12x - 12$   $\frac{1}{12} = 12x -$ 

50 [Inflection point]
15 at x=1  $y=611)=2(1)^3-6(1)^2+4(1)+3$  =2-6+4+3 =9-6=3