

austion 6.

f(x) = 3(x+1) = (-3)

f'(x)= 3x2-62-9

 $f(x) = x^3 - 3x^2 - 9x + C$ when x = 0 C = 12

 $f(x) = x^3 - 3x^2 - 9x + 12$

ii) $f'(x) = x^{2} + 5$

stationary at $f'(\chi) = 0$

3(x+1)(x-3)=0

とニス ノーニズ

4=17 4=-15

f"(4) = 6x-6

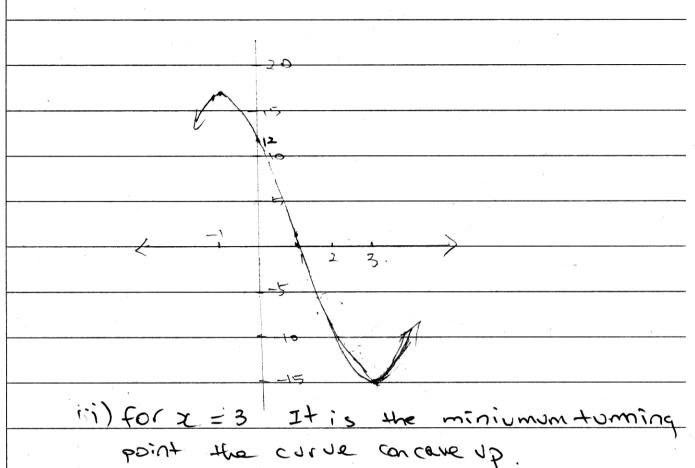
horizontal at fi'(x)=0

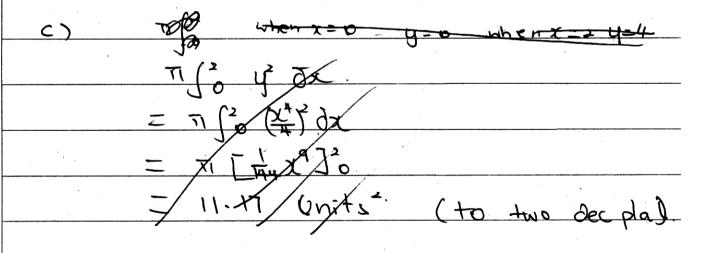
x=-1 = faxo. concara down 61-69=0

x = 3 f''(x) > 0 concave vip. x = 1

02WB4







$$= \sqrt[4]{\frac{1}{2}} \sqrt[4]{\frac{1}{2}} \sqrt[4]{\frac{1}{2}}$$

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$$= \sqrt[4]{\frac{1}{2}} \sqrt[4]$$