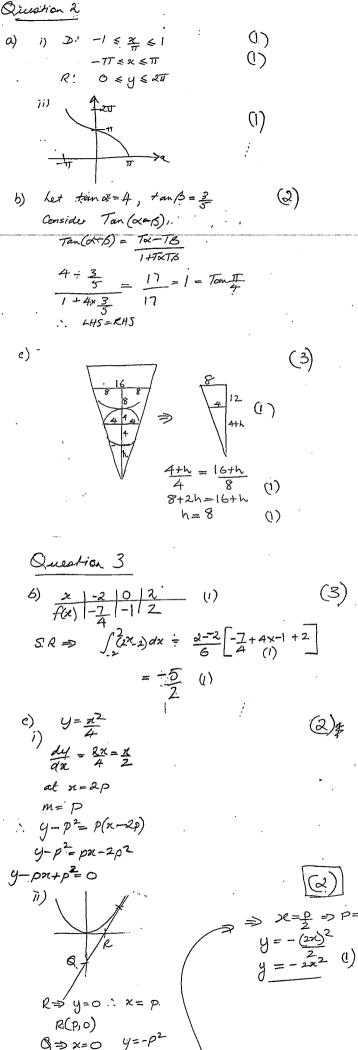
Luestian 1. (2) Score 3smic = 2e3smic +c (2) (3) $\frac{5x-7}{x} \leqslant 4$ ase 1 x>0 5x-7 54x x-7<0 x < 7 0<257 Case 2 5x-フ*≫A*ベ 1227 No Solution 0<257 Note inequality LHS= COSX+SINK × COSX+SINX COSX+SINX. Q) Com + 2 smorcon + sm22 cos2x- sm2x 1 + Sun2x = RHS (3) $= \ln(4+2) - \ln(1+2)$ (1) = In 2 Question 2 d i) Let 2 cosx + 2 sem x = Ross coso + Rswising (Q)R coso = 2 R Suno = 253 : Tano= 13:0== (1) R= V4+12 (1) = 4 4005 (n-1) 11) 4 cos (x-13) = 2 (Z) 1, x= 2 0,21 (1)(1) Question 3 (2) $\chi = B\cos(4t+\alpha)$ 2=-4Bsm(4tA) @ $\ddot{\varkappa} = -16B\cos(4t/\alpha)$ $\ddot{x} = -16x$

A)
$$kHS = \frac{\cos x + \sin x}{\cos x + \sin x}$$
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 $(0,-p^2)$

Min D

$$\frac{d(2v^{2})}{dx} = \frac{3-4x}{3-4x} + c$$

$$\Rightarrow$$
 3-2+c=0
1+c=0

$$\frac{1}{2} = \frac{3x - 2x^2 - 1}{4x^2 + 2}$$

$$V = \pm \sqrt{-2(2x^2 - 3x + 1)}$$

(x-1)(2x-1)=0

$$(x-1)(2x-1)=0$$

 $x=1$ or $x=\frac{1}{2}$

$$P(x) = x^{n}(2^{m}-1) + x^{m}(1-2^{n}) + (2^{n}-2^{m})$$

$$(x^{2}-3x+2) = (2x-1)(x-2)$$

$$P(1) = 1(2^{m}-1) + 1(1-2^{n}) + 2^{n}-2^{m} = 0$$

$$P(2) = 2^{n}(2^{m}-1) + 2^{m}(1-2^{n}) + 2^{n}-2^{m}$$

$$= 2^{m+n}-2^{n}+2^{m}-2^{m+n}+2^{n}-2^{m}$$

$$(3c-1) \leftrightarrow (3c-2) \text{ are factors}$$

$$(3c^2-3a+2) \text{ in a factor } e^{-1}(3c^2)$$

