

ூலங்கையின் உயர்தர கணித விஞ்ஞான

பிரிவிற்கான இணையதளம்

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வடமாகாணக் கல்வித் திணைக்களத்தின் அனுசரணையுடன் தொண்டைமானாறு வெளிக்கள நிலையம் நடாத்தும்

Field Work Centre

தவணைப் பரீட்சை, யூலை - 2017

Term Examination, July - 2017

தரம் :- 12 (2018)

கணிதம்

புள்ளித்திட்டம்

O	4>0 , AKO	<u></u>
	⇒ (k+ 2) -4.4.9 €0	6
	⇒(k+10)(k-2) <0	6
	⇒ -10 < k<2	E

$$\frac{2}{2k-1} \leq -2 \qquad 2 \neq \frac{1}{2} \qquad \boxed{5}$$

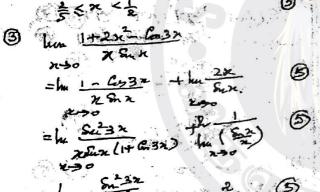
$$\Rightarrow \frac{x}{2x-1} + 2 \le 0$$

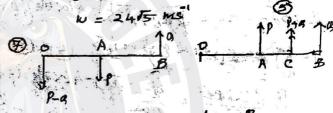
$$\Rightarrow \frac{5x-2}{2x-1} \le 0$$

$$\Rightarrow (5x-2)(2x-1) = 0$$

$$\Rightarrow (5x-2)(2x-1) \le 0$$

$$\Rightarrow (5x-2)(2x-1) \le 0$$





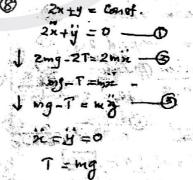
$$GC = OA + AC$$

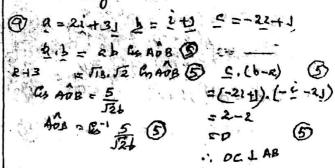
$$= \frac{Q}{P}, AB + \frac{Q}{P+P}, AB$$

$$= \frac{Q}{P-Q}, AB + \frac{Q}{P+P}$$

$$= AB \left(\frac{QPQ}{P-Q^2} \right)$$

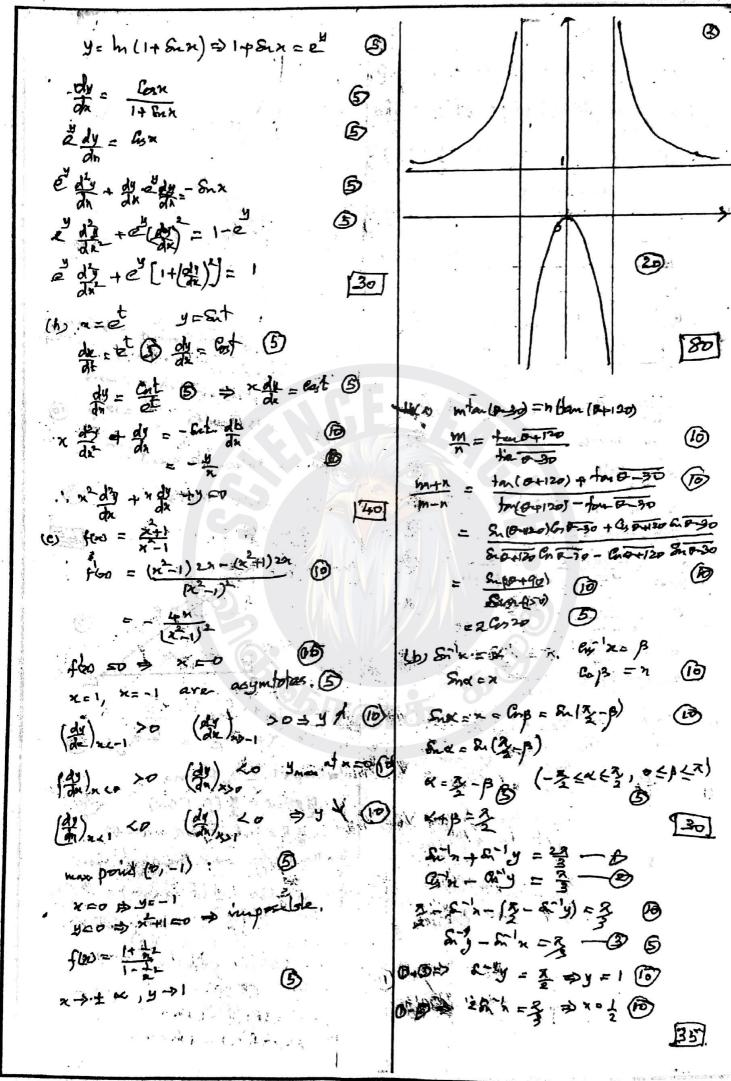
$$= \frac{Q}{P-Q}$$



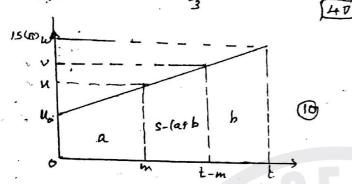


TI+72 = 270 72.9. = 5.240 P2= 150 Ti = 120 3 (1) (c) x+ = -b, x=== · **⑤** (K+K)+(+K)=-=) 3 (44K)(p+K) = } 4- p = (4+k)- (B+k) 3 (K-B) = [K+H) - (B+K)] (K+B)-4KB = [X+B+]++)-4(X+K)(B+K) [-自)-4==[-2)-4产⑤ 1 1 - 4ac = 2 - 49r 30 0 = a2-4(a-b-e)(b+e) (15) 5 a - 4 (a - b+c) (b+c) = a-4 a (b+c) +4(b+c)2 **(13)** = [a - 2 +c] G 3 Hence roots are real 3 by roots are apped 2 x 3 x = - B 2x2 = b+c 5 $2\left[\frac{-c}{3(c-b-c)}\right] = \frac{b+c}{c-b-c}$ 292 = 9(b+c)[a-b+c] 9 (b+c) - 9a (b+c) + 2a2 =0 [36+c-a)[36+c-2a) co. · b+c= = = = 25 3

714 = x + 4x + 4x - 4x - 5 90 = 1 + 4 + 4 -4 -5 00 ording) I was selected of good 11 270 also afactor. (x+1)(x+1)(x++Bx+e) g(x) = (x+1)(x-1) (x+4x+5) 960 =0 => x=1 or -1 01 x +42+500 maginary mots 5 House, only one pair of real roots . 45 12(B) x2+y2 = 7xy (x+y) = 9 24 log (x+y) = log 9 xy: 2 log (1+4) = log 9 + log + log 4 2 log (x+3) 52 log 3 + log x + log y log x = log n fog met leg n (athre) 20 1+6+e+2(ab+be+ca)>0 (3) = ab+bereas --(3) 6-65+16-6)+(c-a) >0 (B) 2/23/2+12) -2(ab+beter)>0 @ \odot abthence &1 = sab+be+ea <1 **(E)** [12-31 ≤2/n-2) xxe = -2+3 <-2x+4) (0) 251 ~x+3 52n-4 **(** 2-3 5 22-4 7 (03) カター たらの 小 双方



GARA+ COBENA + GE ENTE = 3 10 CosA Li- Co A) + BAB (1- Cos) + hoc (1- Coc) = 3 (0) (Gc A- 1) + (CnB-1) + (me-1) = 0 0 明寺四,丽寺四, 丽寺四 〇 MAL ASBECT



$$\frac{g}{s-(a+h)} = \left(\frac{w+u_0}{u+v}\right) \cdot \frac{t}{t-e_{M}} = \frac{t}{t-2m}$$

$$\frac{c}{1} = \frac{c - (a+b)}{1 - 2m} = \frac{a+b}{2m}$$

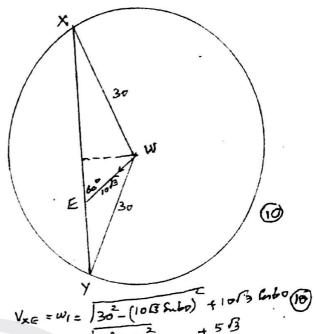
3

(P)

(19) 0

0

(19)



= 30-152 1513 45/5 =2013 = 10/3 VyE = 15/3-8/3 (19)

$$(F')^{2} = (f f f x)^{2} + (f f f x - F)^{2}$$

$$= f^{2} f^{2} x + (f f f x - F)^{2}$$

$$= f^{2} (f f x + f f f x - F)$$

$$= f^{2} (f f x - F f f x - F)$$

$$= f^{2} (1 - \frac{6}{7} f x - F)$$

$$= \frac{1}{3} (9 - F f x - F)^{2}$$

= 9 And 19-5 lind

b

P5

d = 4 5,20 (6)

d+b = 4 = 5 = 5 1

b+a=42(1-1)

Q = 12 (En 20 - 12)

 $\frac{b+a}{a} = \frac{\sqrt{a}-1}{2a+a-1}$

2528-1 = A(12-1)

5202 52a+b (5

17 (2) = -18 1 - 12 2= 21+42 y= k_2-31 PR = 1-9 = 10 (+10) 16 P, B, R. in a 41. hne Pg = ABR 101419 = A[(h-2) 2-73]

1-2 - 7 h-1 = -7 h - - 5 OP - m = q - NOR = 0

P-m2-ny 00 -8--61-m(26443)-n(1-21)00 1

em +8+n =0 -09 5 4m +6-3n =0 -09

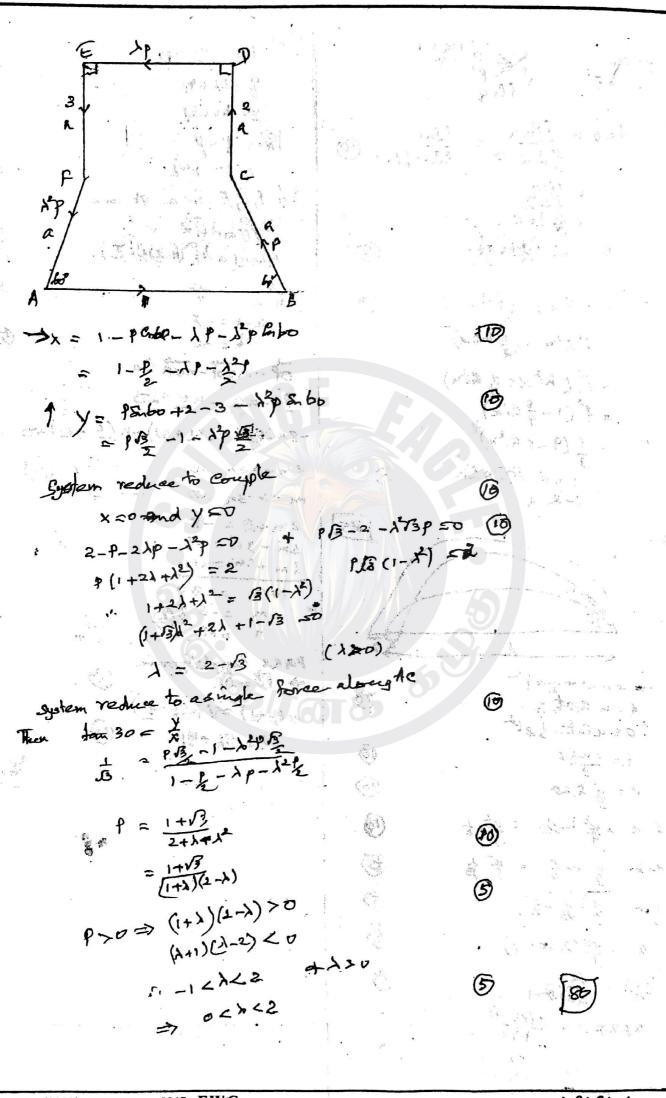
2m+3 = -8 4m-3n = -1 4m+3n = -24 10m = -30

PARS Parcelellogram.

्र - - ११ **- म्र**ा 🕝

(3)

(5)



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தரம் - 12 (2018) யூலை - 2017 F.W.C

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