



0.035

0=1000 r=1.035 T=20

T20 = 90-1

to = 1000 x 1.035

- 1922.50

at the end of 20 years bon will

naue earn+ \$1922.50

Ь.

LPOB + LROB = 180' (angle our of straight

LPQB + 126 = 180

: LPQB = 5A



* WHORM NORS E
PB = QB (given)
: 0PB 15 1506WES
LBPQ = LPQB
LBPQ = 54'
LBQP+ LPBQ + LBPQ = 180' (ongue sum of triangle PBQ') 54' + LPBQ + 54' = 180'
LP BQ = 72
LPBQ = LOPB (alternate angles
LOPB = THE 72°
LOPB = X
x = 1884 = 22°



C	14 .8(1,6)	· D(6,5)	
·	(603)		
	0	- 32	

i.
$$M_{AB} = \begin{pmatrix} x_2 + x_1 & y_2 + y_1 \\ \hline 2 & 3 \end{pmatrix}$$

$$= \begin{pmatrix} \frac{2+1}{2} & \frac{2+5}{2} \\ \hline 2 & 3/2 \end{pmatrix}$$

ii.
$$m_{AB} = \frac{y_2 - y_1}{x_2 - x_1}$$
 : perpendicular gradient = $\frac{3}{3}$

$$= \frac{3}{1}$$

$$= -3$$

$$m = \frac{1}{3}$$
 and point $(312, 712)$

$$y-y_1 = m(x-x_1)$$

 $y^{-3/2} = \frac{1}{3}(x^{-3/2})$

CERTAIN ANTONIA

CHARACTER MADE

SHAKE BELEVE DANG



 $y^{-7/2} = \frac{1}{3}x^{-1/2}$

 $y = \frac{1}{3}x + 3$

3y=x+9

EH HERRING

x-34+9=0

iii. DAC = DBC C(0,4) A(2,2) B(1,5)

 $\int (x_{A}-x_{O}^{2}+(y_{A}-y_{O}^{2}-\int (x_{B}-x_{O}^{2}+(y_{B}-y_{O}^{2})^{2}+y_{O}^{$

 $\int (2-0)^2 + (2-4)^2 = \int (1-0)^2 + (5-4)^2$

 $\int 4 + (2-4)^2 = \int 1 + (5-4)^2$

4+(2-4)2= 1+ (5-4)2

4+(a-44+42)=1+ (25-104+42)

 $4+4-4y+y^2=1+25-10y+y^2$

8-94+42=26-104+42

6y = 18

i point c that lies on y-axis

15 (0,3)



iv. x-34+9=0 -0

4=5 -2

. SUD @ 1/2 (C)

x-15+9=0

x - 6 = 0

x = 6

: point 0 is (6,5)

v. A(2,2) B(1,5) D(6,5)

d AB = J(x2-x1)2+ (42-41)2

= 1 (1-2)2+ (5-2)2

= 11+9

= 510

mas = -3 (2,2).

y-y, = m(x-x)

y-2=-3(x-2)

y-2 = -3x + 6

34+4-8=0



d = ax+by+c
$\sqrt{G^2 + O^2}$
= 13×6+1×5-81
= 13×6+1×5-81
= 15
$A \triangle_{ABD} = \frac{1}{2} bh$
$A \triangle ABD = \overline{2} D D$ $= \frac{1}{2} \sqrt{10} \times \overline{10}$
= 71/2 wit62