

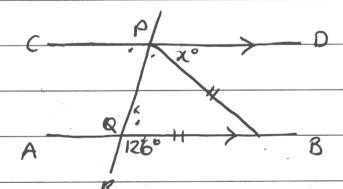
Question 3

A = 1000 (++0.035)20

= \$1989.79

= S 1990

6)



CDIIAB, PB = QB, < BQR = 126° and < BPD = x° (given)

< PaB = 54° (180-126) straight use complementary <'s

< QPB = 54° (bosse angles in equilatral trungle)

< PQA = 126° (is on straight line and vertically opp. (5)

< CPQ = 54° (interior <5 add to 180; 4 alternatic's equal)

: Mx = 72°

< cpa + < paB = 108.</pre>

line Cp = 180° 30 180° - 108°

= 72° ... x = 72°.



$$m\rho = \left(\frac{\chi_1 + \chi_2}{2}, \frac{y_1 + \chi_2}{2}\right)$$

$$=$$
  $\left(\frac{2+1}{2}, \frac{2+5}{2}\right)$ 

$$=$$
  $(3/2, 7/2)$ 

$$= m(1/2, 3/2)$$

$$= M(1/2, 3/2)$$
(ii)  $x - 3y + 9 = 0$ 

Pd. 
$$\frac{|ax, +by, +c|}{\sqrt{a^2+b^2}} = \frac{-3 \times 3/2 + 8/27/2}{\sqrt{-3^2+8^2}}$$

$$m = y_2 - y_1 = \frac{5-2}{1-2}$$

$$y - \frac{7}{2} = -3(x - \frac{3}{2})$$