

Tan Beng Hui (30) 4C1

MathsD Weekend hmk WK7 (Wkstt)

Date

No.

1a).

$$\text{gradient of line} = \frac{-1+3}{3-2} = 2$$

$$-1 = 2(3) + C$$

$$C = -7$$

$$\text{eqn of line: } y = 2x - 7$$

$$\text{when } x = 4,$$

$$y = 2(4) - 7 = 1$$

$$\therefore K = 1 //$$

b).

$$m = -1 //$$

$$3 = -1(2) + C$$

$$C = 5 //$$

2a).

$$\text{when } x = -1,$$

$$y = \frac{1}{-1} - 2 = -3$$

$$\therefore b = -3 //$$

b).

$$-3 = \frac{1}{2}(-1) + k$$

$$k = -2\frac{1}{2} //$$

c).

$$\text{when } y = 0,$$

$$\frac{1}{x} - 2 = 0$$

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

$$A\left(\frac{1}{2}, 0\right).$$

$$0 = \frac{1}{2}\left(\frac{1}{2}\right) + C$$

$$C = -\frac{1}{4}$$

$$\therefore \text{eqn of m: } y = \frac{1}{2}x - \frac{1}{4} //$$

3a).

$$2y + \frac{1}{2}x = 6$$

$$2y = 6 - \frac{1}{2}x$$

$$y = 3 - \frac{1}{4}x$$

$$\text{gradient} = -\frac{1}{4} //$$

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Gm

$$y = 3 - \frac{1}{4}(0) = 3$$

$\therefore$ words are $(0, 3)_{//}$.

$$\frac{1}{2}x - 2y = 2$$

$$2y = \frac{1}{2}x - 2$$

$$y = \frac{1}{4}x - 1$$

$$\text{gradient} = \frac{1}{4}$$

When $y=0$,

$$\frac{1}{4}x - 1 = 0$$

$$\frac{1}{4}x = 1$$

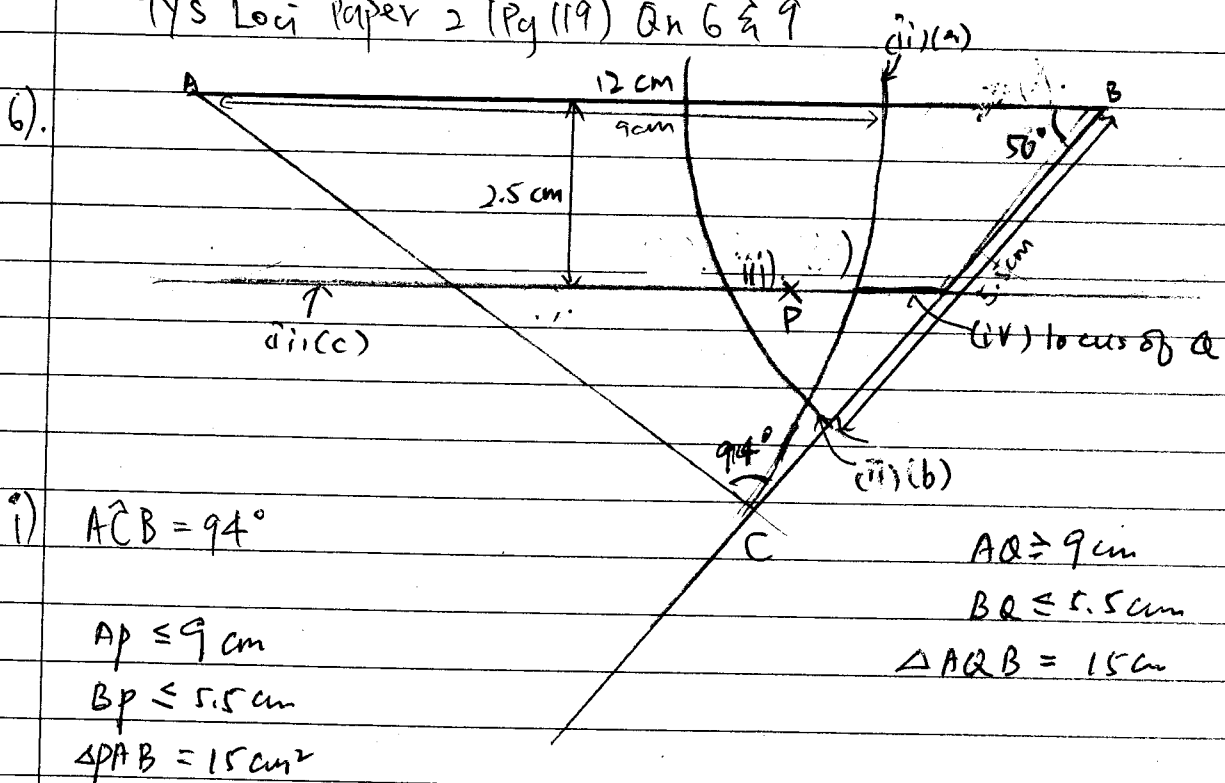
$$x = 4$$

When $x = 0$,

$$y = \frac{1}{4}(0) - 1 = -1$$

midpt $M = \left(\frac{0+4}{2}, \frac{0-1}{2} \right)$
 $= \left(2, -\frac{1}{2} \right)$

TYS Loc Paper 2 (Pg 119) Qn 6 & 9



i) $\hat{A}CB = 94^\circ$

$$A_p \leq 9 \text{ cm}$$

Bp ≤ 5.5 cm

$$\Delta PAB = 15 \text{ cm}^2$$

$$AO \geq 9 \text{ cm}$$

$$BQ \leq 5.5 \text{ cm}$$

$$\triangle AQB = 15 \text{ cm}$$

[illegible]