

(4) The amount after 1 year is.

$$\Rightarrow A = P \left(1 + \frac{r}{100} \right)$$

$$= \$1000 \left(1 + \frac{3.5}{100} \right)$$

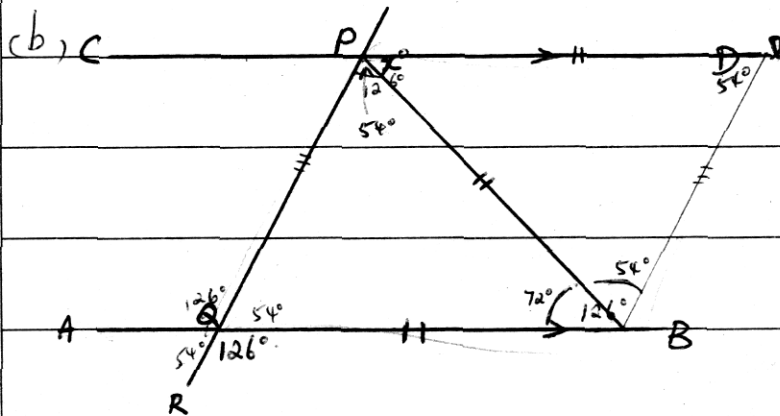
$$= \$1035$$

After 2 years is

$$= \$1000 \left(1 + \frac{3.5}{100} \right)^2$$

$$= \$1071.22$$

$$= \$$$



$PQBD$ is a parallelogram.

$$\angle BQR = \angle AQP \text{ (opps. angle equal)}$$

$$\angle PQB = \angle AQR \text{ (opps. angle equal)}$$

$$QB = PD \text{ (equal side of } \square \text{'s)}$$

There for $QB = PB = PD$.

$$\triangle PQB \cong \triangle PBD \text{ (AAS.)}$$

$$\angle PQB = \angle PDB \text{ (opps. } \square \text{'s angle are equal.)}$$

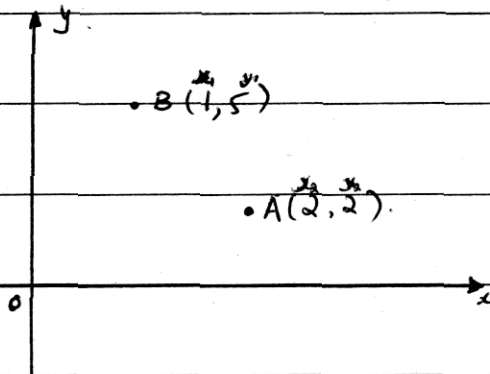
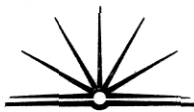
$\triangle PQB \cong \triangle PBD$ are Isosceles Δ 's.

There for two equal angle; so $\angle PQB = \angle PBD$

$$\angle PBQ = 180^\circ - 54^\circ - 54^\circ = 72^\circ$$

$$\therefore \angle DPB \text{ which is } x^\circ = \angle PBQ$$

$$x^\circ = 72^\circ$$



$$(i) \quad M = \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}$$

$$= \frac{1 + 2}{2}, \frac{5 + 2}{2}$$

$$= \frac{3}{2}, \frac{7}{2}$$

$$= (1\frac{1}{2}, 3\frac{1}{2})$$

(ii)