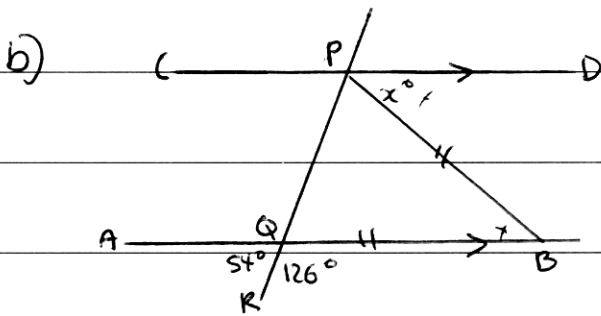


$$a) P(1+r)^n$$

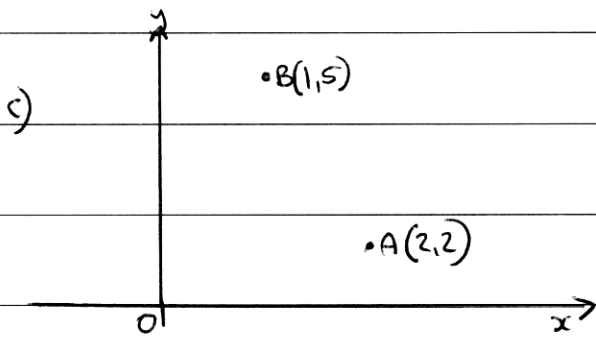
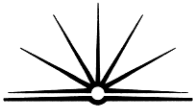
$$= 1000(1.035)^{20}$$

$$= \underline{\$1989.80} \quad 2 \text{ dec places.}$$



$CD \parallel AB$

<



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

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

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

$$(ii) x - 3y + 9 = 0$$

when  $x=1$  and  $y=5$

$$1 - 3(5) + 9 = 0$$