

### 'Profiting from Reforestation'

a)  $y = mx + k$ ,  $k = \text{fixed cost}$  (1)

b)  $800 \times 2 = 1600$ , thus the cost of the tree planting = £1100

$300 \times 2 = 600$ , thus the cost of the tree planting = £680 (1)

$$m = \frac{1100 - 680}{800 - 300} = \frac{21}{25}$$

$$y - 1100 = \frac{21}{25}(x - 80000)$$

$$y = 0.84x + 428$$

(1)