

Answer ALL questions.

Write your answers in the spaces provided.

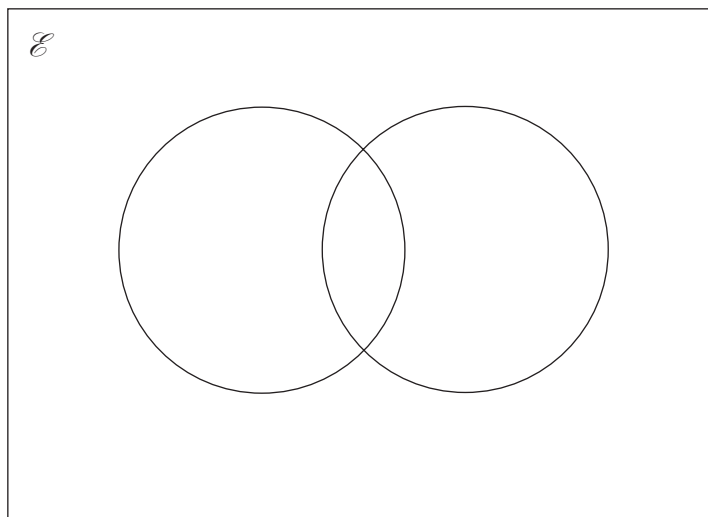
You must write down all the stages in your working.

1  $\mathcal{E} = \{\text{odd numbers less than 30}\}$

$A = \{3, 9, 15, 21, 27\}$

$B = \{5, 15, 25\}$

(a) Complete the Venn diagram to represent this information.



(4)

A number is chosen at random from the universal set,  $\mathcal{E}$ .

(b) What is the probability that the number is in the set  $A \cup B$ ?

.....  
(2)

(Total for Question 1 is 6 marks)

