(d) Find the 2 × 2 matrix that represents the transformation of triangle D onto triangle A.

$$\begin{pmatrix} & \\ & \end{pmatrix}$$

(2)

(Total for Question 24 is 5 marks)

25 y varies directly as the cube of x.

$y = 9$ when $x = \dfrac{1}{2}$

(a) Find a formula for y in terms of x.

$y = $ ....

(3)

(b) Find the value of x when $y = \dfrac{125}{3}$

$x = $ ....

(2)

(Total for Question 25 is 5 marks)