4 $x = 4.2 \times 10^5$ and $y = 6 \times 10^{-100}$

(a) Write x as an ordinary number.

(1)

(b) Calculate xy
   Give your answer in standard form.

(2)

(c) Calculate $\dfrac{x}{y}$
   Give your answer in standard form.

(2)

(d) Using the values of x and y above, write the following in order of size

$$x \qquad y \qquad \sqrt{x} \qquad \sqrt{y}$$

Start with the smallest value.

(2)

P 7 2 9 1 9 A 0 1 2 4 0

Question 4 continued

(Total for Question 4 is 7 marks)