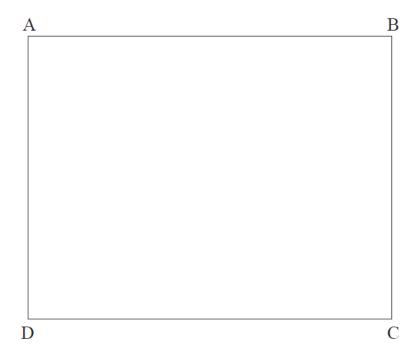
m8 =27 days to go!

3



ABCD is a rectangle, with AB = 9 cm and BC = 7 cm.

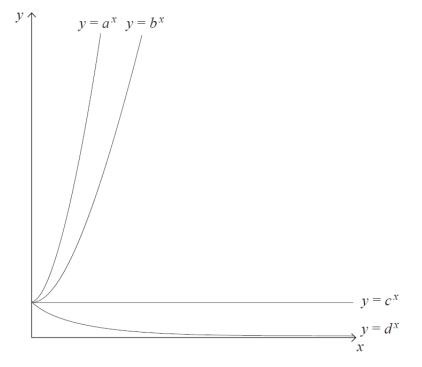
Shade the region inside the rectangle which is the locus of all points that are

(i) greater than 4.5 cm from C

and (ii) nearer to B than D.

[3]

11



Sketches of $y = a^x$, $y = b^x$, $y = c^x$, $y = d^x$ are drawn above.

(a) a and b are numbers. One has the value 2 and the other has the value 3 Which is which?

Answer
$$a = ______, b = ______[1]$$

(b) Write down the value of c

Answer
$$c = ____[1]$$

(c) Estimate the value of d

Answer
$$d = ____ [1]$$