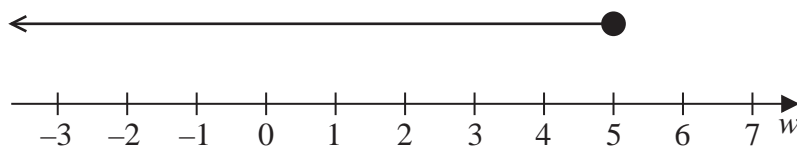**3** (a) Solve the equation $3a + 6 = 4 - 5a$

(2)

(b) Solve the inequality $3p > 6p + 12$

(2)

An inequality, in w, is shown on a number line below.

(c) Write down the inequality.

(1)

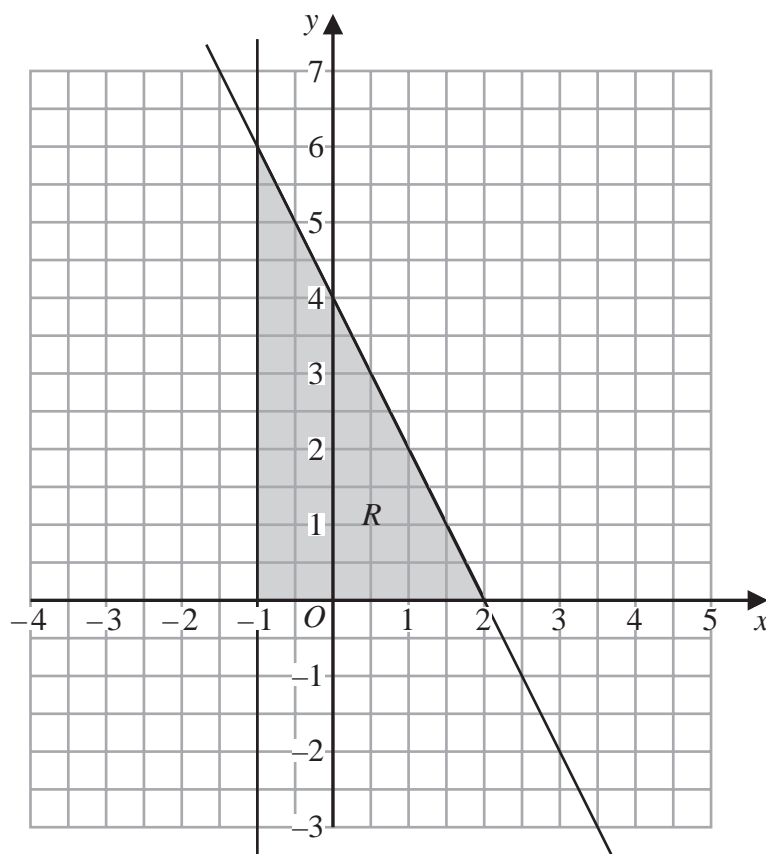(d) Write down the 3 inequalities that define the shaded region R in Figure 1

Figure 1

(3)

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Question 3 continued

(Total for Question 3 is 8 marks)

P 6 2 0 1 9 A 0 7 3 6