## Figure 1

a) Complete the trace table below when the subroutine call Work(3, 7) is made (you may not need all the rows in the table):

[3 marks]

a	b	x	У	С

b)	) A	programmer	wants to	shorten	the subroi	utine in	Figure	1.
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Write a single line of code to replace the lines:

$$x <- a + a$$
  
 $y <- b + b$ 

c) Explain why your code is more efficient.

[2 marks]

[2 marks]

[3 marks]

[4 marks]

[7 marks]

[9 marks]