[3 marks]

Figure A

SUBROUTINE Func(a, b)	
c <- 0	
FOR i <- 1 TO b	
c <- c + a	
END FOR	
RETURN C	
ENDSUBROUTINE	

a) Complete the trace table below when the subroutine call Func(2, 4) is made (you may not need all the rows in the table):

a	b	С
_		

b) Explain what the purpose of the algorithm in Figure A is.

[2 marks]

c) What value is returned by the subroutine call Func (x, 1) where x is any positive integer.

[1 mark]

d) What value is returned by the subroutine call Func (p, 0) where p is any positive integer?

[1 mark]