(b)	Draw a binary tree w
	(4 0) 1: ((6 0) 1 (9

5.

(a)

(e)

which represents the arithmetic expression (1+9)\*((6-2)/(3\*4))

(c) Rewrite the expression in (b) using postfix (Reverse Polish) notation.

(d)

With reference to your answer to (c), explain how a stack can be used to evaluate an

Define the ADT *stack*.

arithmetic expression. Why is the use of a stack desirable in this instance?

State **two** other situations where you might encounter the use of a stack within a computer system, and for each one explain briefly why a stack would be used.

[4 marks]

[7 marks]

[4 marks] [4 marks]

[5 marks]