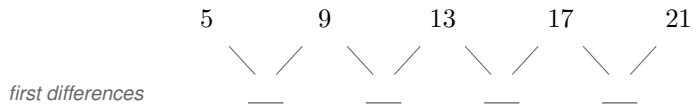
Fill in the ladder under each sequence before you answer. One row constant means linear. Two rows means quadratic. Nothing after two rows means neither.

1 5, 9, 13, 17, 21

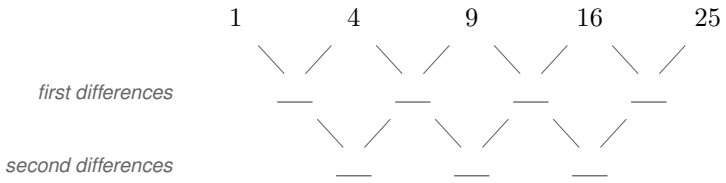


(a) Write the first differences, and the second differences if you need them. (2)

(b) Linear, quadratic or neither? (1)

(3 marks)

2 1, 4, 9, 16, 25

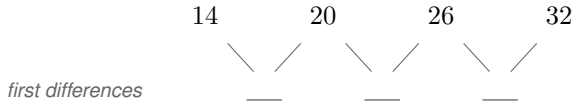


(a) Write the first differences, and the second differences if you need them. (2)

(b) Linear, quadratic or neither? (1)

(3 marks)

3 14, 20, 26, 32

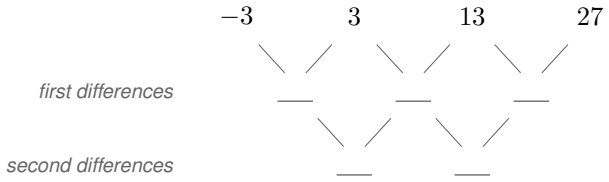


(a) Write the first differences, and the second differences if you need them. (2)

(b) Linear, quadratic or neither? (1)

(3 marks)

4 -3, 3, 13, 27

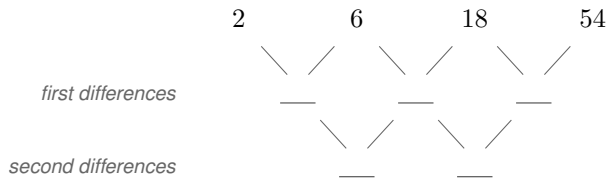


(a) Write the first differences, and the second differences if you need them. (2)

(b) Linear, quadratic or neither? (1)

(3 marks)

5 $2,\ 6,\ 18,\ 54$

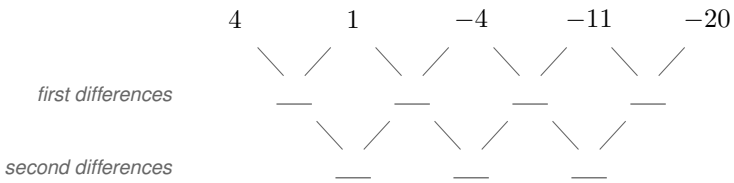


(a) Write the first differences, and the second differences if you need them. (2)

(b) Linear, quadratic or neither? (1)

(3 marks)

6 $4,\ 1,\ -4,\ -11,\ -20$



(a) Write the first differences, and the second differences if you need them. (2)

(b) Linear, quadratic or neither? (1)

(3 marks)