

Name: _____
YEAR 11 MINI-ASSESSMENT 11
HIGHER – SEQUENCES

1. An n th term for a sequence is given by $2n^2 - 7$.
(a) What are the first three terms in this sequence?

(3)

- (b) 331 is a term in the sequence. Which term?

(2)

[5 marks]

2. Work out the n th term for the sequence 0, 6, 14, 24, 36, ... and work out the 20th term in the sequence.

[4 marks]

3. A sequence is defined by the term to term rule

$$U_{n+2} = 3U_{n+1} - U_n$$

If $U_1 = 4$ and $U_2 = 5$, find U_3 , U_4 and U_5 .

[4 marks]