

RECURSIVE SEQUENCES

TEXT: 3.10, 3.11

LAST NAME	FIRST NAME	DATE
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1 (5 points). A sequence is defined by

$$a_1 = 2$$

$$a_n = a_{n-1}^2 - 3a_{n-1} \text{ if } n > 1$$

Find second, third, fourth, fifth, and sixth members of the sequence.

$$a_2 =$$

$$a_3 =$$

$$a_4 =$$

$$a_5 =$$

$$a_6 =$$

2 (5 points). A sequence is defined by

$$b_1 = 3$$

$$b_2 = 5$$

$$b_n = (b_{n-1} - b_{n-2})^2 \text{ if } n > 2$$

Find the initial segment of this sequence:

$$b_3 =$$

$$b_4 =$$

$$b_5 =$$

$$b_6 =$$

$$b_7 =$$