

Name : _____

Recursive Formula

Sheet 1

Write the recursive formula for each arithmetic sequence.

1) $-44, -46, -48, -50, -52, \dots$

2) $3, 7, 11, 15, 19, \dots$

3) $\frac{3}{5}, \frac{4}{15}, -\frac{1}{15}, -\frac{2}{5}, \dots$

$-6.5, -5.6, \dots$

5) $63, 42, 21, 0, -21, \dots$

$5, -25, \dots$

7) $0.16, 0.24, 0.32, \dots$

$78, \dots$

9) $-8, -16, -24, -32, \dots$

10) $\frac{5}{6}, \frac{35}{24}, \frac{25}{12}, \frac{65}{24}, \frac{10}{3}, \dots$

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Recursive Formula

Write the recursive formula for each arithmetic sequence.

1) $-44, -46, -48, -50, -52, \dots$

2) $3, 7, 11, 15, 19, \dots$

$$a_n = a_{n-1} - 2$$

$$a_n = a_{n-1} + 4$$

3) $\frac{3}{5}, \frac{4}{15}, -\frac{1}{15}, -\frac{2}{5}, \dots$

$$-6.5, -5.6, \dots$$

PREVIEW

$$a_n =$$

$$a_{n-1} + 0.9$$

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5) $63, 42, 21, 0, -21, \dots$

$$5, -25, \dots$$

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$$a_n =$$

$$a_{n-1} - 60$$

7) $0.16, 0.24, 0.32, \dots$

$$78, \dots$$

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$$a_n = a_{n-1} + 0.08$$

$$a_n = a_{n-1} + 13$$

9) $-8, -16, -24, -32, \dots$

10) $\frac{5}{6}, \frac{35}{24}, \frac{25}{12}, \frac{65}{24}, \frac{10}{3}, \dots$

$$a_n = a_{n-1} - 8$$

$$a_n = a_{n-1} + \frac{5}{8}$$