Name:	Class:	Date:	ID:

Arithmetic sequences

Multiple Choice

Identify the choice that best completes the statement or answers the question.

 1.	Which of the following is the explicit function rule for:			-3, 3, 9, 15,?
	a. $a_n = 7n - 9$	с.	$a_n = 6n - 9$	
	b. $a_n = 6n - 8$	d.	$a_n = 7n - 8$	

2. Which of the following is the explicit function rule for: 0, -3, -6, -9, ...?a. $a_n = -3n + 3$ b. $a_n = -2n + 3$ c. $a_n = -3n + 4$ d. $a_n = -2n + 4$

3. Which of the following is the explicit function rule for: -7, -2, 3, 8, ...?What is the n^{th} term when n = 22?

a. $a_n = 5n - 13; 120$	e.	$a_n = 6n - 12;98$
b. $a_n = 6n - 13; 119$	f.	$a_n = 6n - 13;97$
c. $a_n = 5n - 12;98$	g.	$a_n = 6n - 12; 120$
d. $a_n = 5n - 13;97$	h.	$a_n = 5n - 12; 119$

4. Which of the following is the explicit function rule for: 5, 7, 9, 11, ...? What is the n^{th} term when n = 28?

a.	$a_n = 2n + 4; 31$	e.	$a_n = 1n + 3;31$
b.	$a_n = 1n + 4; 32$	f.	$a_n = 2n + 3; 32$
c.	$a_n = 1n + 4;60$	g.	$a_n = 2n + 3;59$
d.	$a_n = 2n + 4;60$	h.	$a_n = 1n + 3;59$

А

Numeric Response

- 5. Find the n^{th} term for the following sequence when n = 27: 8, 3, -2, -7, ...
- 6. Find the common difference for the following sequence: 7, 15, 23, 31, ...
- 7. Find the n^{th} term for the following sequence when n = 12: 5, 2.9, 0.8, -1.3, ...
- 8. Find the common difference for the following sequence: 7, 0.6, -5.8, -12.2, ...
- 9. Find the n^{th} term for the following sequence when n = 15: -1, 7, 15, 23, ...
- 10. Find the common difference for the following sequence: 5, 7, 9, 11, ...
- 11. Find the n^{th} term for the following sequence when n = 30: 7, 9.6, 12.2, 14.8, ...
- 12. Find the common difference for the following sequence: -4, 3.4, 10.8, 18.2, ...

Arithmetic sequences Answer Section

MULTIPLE CHOICE

1.	ANS:	С	PTS:	1
2.	ANS:	А	PTS:	1
3.	ANS:	С	PTS:	1
4.	ANS:	G	PTS:	1

NUMERIC RESPONSE

- 5. ANS: -122
 - PTS: 1
- 6. ANS: 8
 - PTS: 1
- 7. ANS: -18.1
 - PTS: 1
- 8. ANS: -6.4
 - PTS: 1
- 9. ANS: 111
 - PTS: 1
- 10. ANS: 2
 - PTS: 1
- 11. ANS: 82.4
 - PTS: 1
- 12. ANS: 7.4
 - PTS: 1