

Write the explicit formula for an arithmetic sequence

1

Choose the first values that this equation would create starting with $n=1$

$$a_n = 2 + 3(n - 1)$$

A 2, 3, 4, 5

B 2, 5, 7, 12

C 6, 9, 12, 15

D 2, 5, 8, 11

E 4, 7, 10, 13

F 2, 7, 12, 17

2

3, 7, 11, 15

A

24

B

30

C

-21

D

39

E

27

F

9

3

Find the term for $n=10$ given this pattern equation

$$a_n = 1 + 4(n - 1)$$

A

-35

B

33

C

37

D

32

E

34

F

28

4

Find the term for $n=13$ given this pattern equation

$$a_n = 61 - 4(n - 1)$$

A

-23

B

49

C

13

D

109

E

10

F

-11

5

47, 44, 41, 38, 35

A

35

B

-37

C

83

D

11

E

12

F

-13

6

Start at 1 and add 2 for each term

A

6

B

5

C

-3

D

4

E

9

F

-7

7

-4, -10, -16

A

$$2 - 8n$$

B

$$2 - 6n$$

C

$$2 - 5n$$

D

$$2 - 4n$$

E

$$3 - 6n$$

F

$$4 - 6n$$

8

2, 8, 14, 20, 26

A

$$a_n = 2 + 6(n - 1)$$

B

$$a_n = 2 + 3(n - 1)$$

C

$$a_n = -1 + 6(n - 1)$$

D

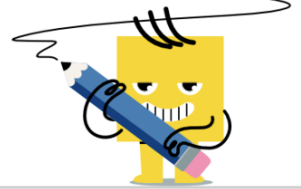
$$a_n = 2 + 2(n - 1)$$

E

$$a_n = 2 + 6(n)$$

F

$$a_n = 2 + 10(n - 1)$$

**Write the explicit formula for an arithmetic sequence****9**

13, 10, 7, 4

A $a_n = 13 - -1(n - 1)$

B $a_n = 13 - 1(n - 1)$

C $a_n = 13 + 3(n - 1)$

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

E $a_n = 13 - 3(n - 1)$

F $a_n = 13 - 0(n - 1)$

10

1, -2, -5

A $4 - 4d$

B $4 - 3d$

C $3 - 3d$

D $1 - 3d$

E $4 - 5d$

F $4 - 2d$

11

3, 8, 13, 18

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

B $a_n = 4 + 5(n - 1)$

C $a_n = 3 + 5(n)$

D $a_n = 3 - 5(n - 1)$

E $a_n = 3 + 2(n - 1)$

F $a_n = 3 + 5(n - 1)$

12

21, 17, 13, 9, 5

A $a_n = 21 - 4(n - 1)$

B $a_n = 18 - 4(n - 1)$

C $a_n = 21 - 4(n)$

D $a_n = 21 - 0(n - 1)$

E $a_n = 21 - 6(n - 1)$

F $a_n = 20 - 4(n - 1)$