

Warm Up: Pre - Calc

8/26

Given the explicit formula; $a_n = 4 + (n - 1)6$

- 1) Write the first six terms of the sequence.
- 2) Determine the 20th term.
- 3) 178 is what term in the sequence?

Turn in Assignment #3: pg. 17 #1 - 8 (Basket)

Feb 27-7:39 AM

Solutions to W.U.: Pre-Calc

$$1) \{4, 10, 16, 22, 28, 34\} = a_n$$

$$2) a_{20} = 118$$

$$3) a_{30} = 178$$

Dec 31-10:07 PM

Solutions to P.W.:

Questions you have about what you turned in?

Dec 31-10:07 PM

5. Find x such that $x + 4$, $3x - 9$, and $2x + 8$ are consecutive terms of an arithmetic sequence.

Aug 26-10:53 AM

2. A marathon is 26.2 miles. A runner begins training by running 3 miles on the first day. He increases his distance by 0.8 mile each day thereafter. How many days does it take for him to run the distance of a marathon?

Aug 26-12:23 PM

8. In an arithmetic sequence, a_3 is 27 and a_{12} is 90. Find a_{18} .

Aug 26-10:58 AM

7. If $a_1, a_2, a_3, a_4, a_5,$ and a_6 are the first six terms of an arithmetic sequence, is $3a_1, 3a_2, 3a_3, 3a_4, 3a_5, 3a_6, \dots$ also an arithmetic sequence? Give an example or a counterexample to support your answer.

Aug 26-11:02 AM

W.A.L.T.:

Write the explicit formula for arithmetic sequences using a different method.

W.A.S.I.:

We know which of the two methods serves us best.

Mar 7-9:45 AM

In Class Work:

Without using the formula discussed write an expression that models these patterns.

1a) 1, 2, 3, 4, ... n

2a) 2, 4, 6, 8, ... $2n$

3a) 3, 6, 9, 12, ... $3n$

Mar 7-1:33 PM

In Class Work:

Without using the formula discussed write an expression that models these patterns.

1b) 2, 3, 4, 5, ...

2b) 4, 6, 8, 10, ...

3b) 1, 4, 7, 10, ...

Mar 7-1:33 PM

In Class Work:

1a) 1, 2, 3, 4, ... n

1b) 2, 3, 4, 5, ... $n+1$

2a) 2, 4, 6, 8, ... $2n$

2b) 4, 6, 8, 10, ... $2n+2$

3a) 3, 6, 9, 12, ...

$3n$

3b) 1, 4, 7, 10, ...

3

Mar 7-1:33 PM

In Class Work:

Clear your desks of everything

Let's see what you know.

Mar 7-1:33 PM

Today's Activities:

- Another way of writing formulas

P.W. for tonight:

- None

Dec 31-9:59 PM