September 8, 2011

Warm-up:

10 pts

Find the next 3 numbers in each sequence:

1. 11, 17, 23, 29, 35, 41, 47, 53

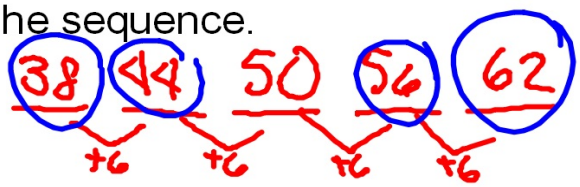
2. 76, 68, 60, 52, 44, 36, 28, 20

Don't count

3. 1, 5, 13, 29, 61, 125, 253, 509

4 8 16 32 64 128 256

4. If the first differences of a squence are a constant 6 and the third term is 50, find the first 5 number in the sequence.



Hand in homework:

Bunny dot-to-dot

9/~~7~~ 8 - Representing Linear Patterns

If you belong to a DVD club that charges a $20 monthly fee plus $15 for each DVD you purchase, use the information below to write an equation that represents how much money is spent each month.

x
y

# of DVDs purchased	0	1	2	3	4	5
Total paid monthly	20	35	50	65	80	95

+15 +15 +15 +15 +15

$y = 15x + 20$

Write an equation for the given data:

x	0	1	2	3	4	5
y	4	6	8	10	12	14

+2 +2 +2 +2 +2

$y = 2x + 4$

lst diff

y-value at $x=0$

Write an equation for the given data:

x	0	1	2	3	4	5
y	35	47	59	71	83	95

+12 +12 +12 +12 +12

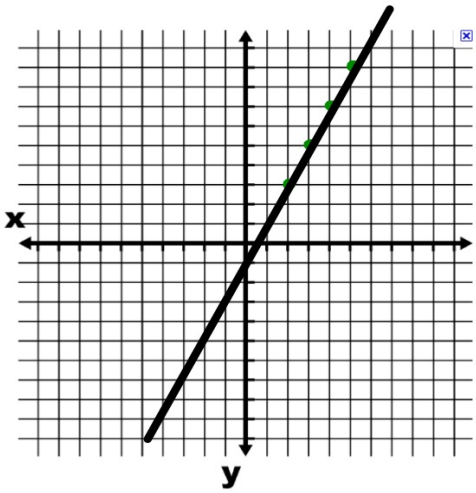
$y = 12x + 35$

Make a table for $y = 2x - 1$ using the x-values 2, 3, 4, 5...

x	2x − 1	
2	2(2) − 1	3
3	2(3) − 1	5
4	2(4) − 1	7
5	2(5) − 1	9

(2, 3)
(3, 5)
(4, 7)
(5, 9)

...then graph it.

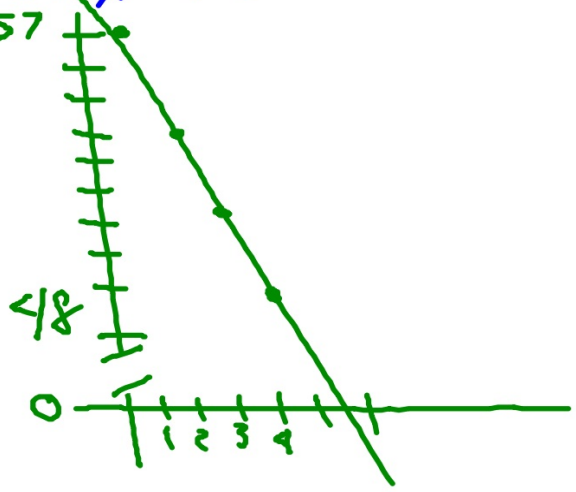


Make a table for $y = 60 - 3x$ using the x-values 1, 2, 3, 4…

x	$60 - 3x$	
1	$60 - 3(1)$	57
2	$60 - 3(2)$	54
3	$60 - 3(3)$	51
4	$60 - 3(4)$	48

-3 -3 -3

…then graph it.



Homework:

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#8-28 ~~all~~ evens

Due ~~Thursday~~ Friday