Name:	Date:	Period:	

Unit 6 Day 7 - Equations of Parallel Lines Classwork

Remember arithmetic sequences?

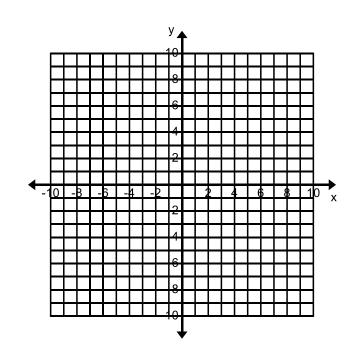
- 1. Find the next 2 terms in this sequence: -7, -4, -1, 2, 5, ...
- 2. Put your sequence into a table:

Term #	1	2	3	4	5	6	7
Value							

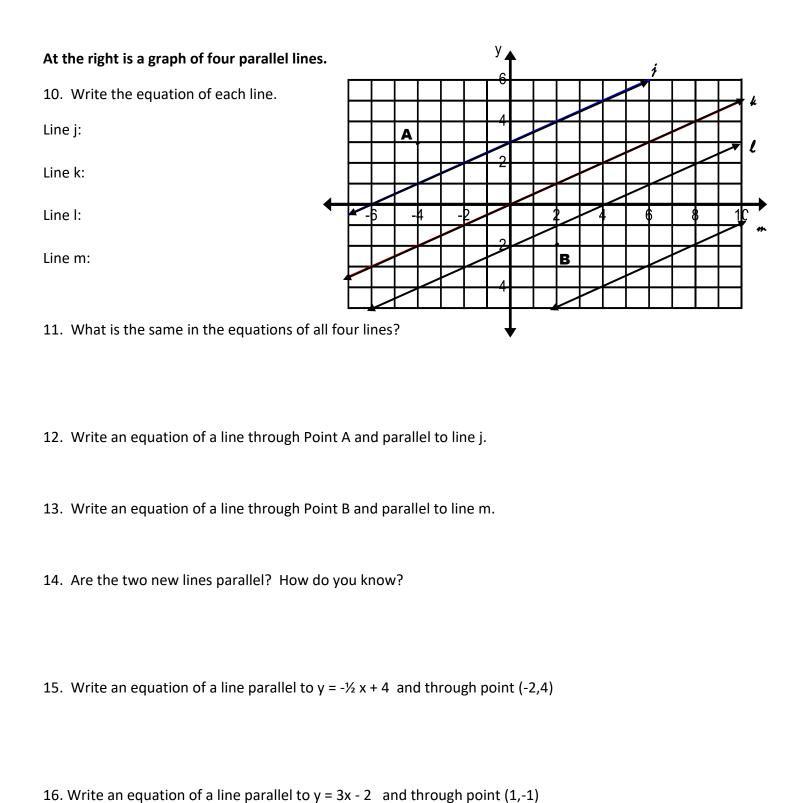
- 3. Remember that we wrote explicit equations for arithmetic sequences, like f(x) = -7 + 3(x-1). Explain how each part of that equation is related to the sequence in the table:
- 4. Write three more explicit equations for the sequence in the table:
- 5. What is the "zero term" for this sequence?
 Write an equation for this sequence using the zero term:

Add it to your table.

- 6. Turn your table into a list of ordered pairs:
- 7. Graph the sequence/ordered pairs and connect the dots to make a line:
- Write an equation in slope-intercept form(y = mx + b) for the line you just graphed.
- 9. How are your equations from #4 similar to the equation you just wrote for #8?



How are they different?



17. Big idea for the day - How is the back of this classwork related to the front?

Point-slope form of a line: