Equations of Lines

Pattern 1

Step#	# of Blocks	Differences
1	3	
2	6	6 - 3= 3
3	9	9 - 6 = 3
4	12	12 - 9 = 3

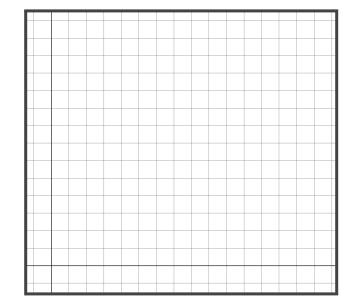
1	2	3

Key Characteristics

Slope:

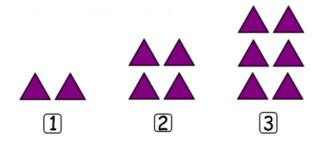
y-intercept:

Equation:



Pattern 2

Step#	# of Block	Differences

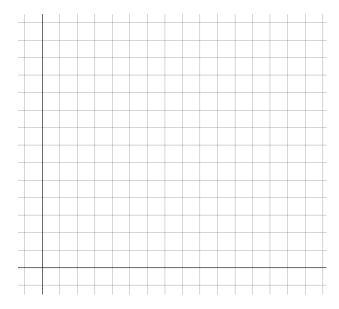


Key Characteristics

Slope:

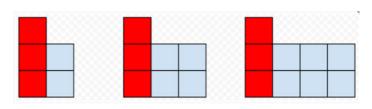
y-intercept:

Equation:



Pattern 3

Step#	# of Blocks	Differences

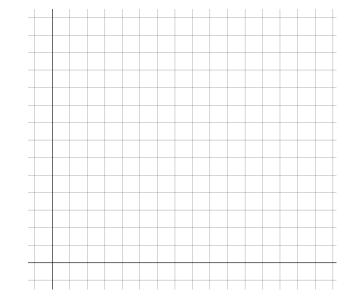


Key Characteristics

Slope:

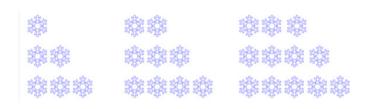
y-intercept:

Equation:



Pattern 4

Step#	# of Block	Differences

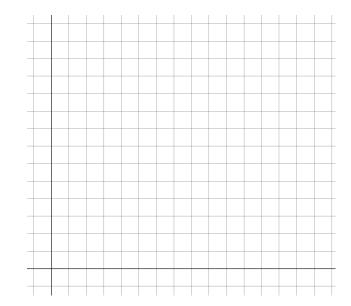


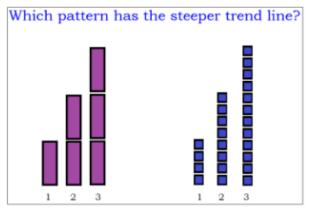
Key Characteristics

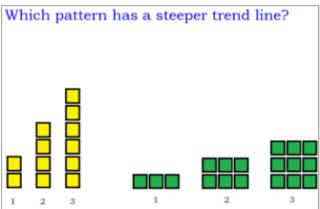
Slope:

y-intercept:

Equation:







Using two colours of tiles construct:

number of tiles = position number x 5 + 3

Discuss:

- 1. Could there be a position 0?
- 2. How many tiles would be at this position?
- 3. Construct position 0.

On the large grid paper, create a graphical representation for each of the rules below:

```
number of tiles = position number x 1 + 1
```

number of tiles = position number x 3 + 1

number of tiles = position number x 5 + 1