

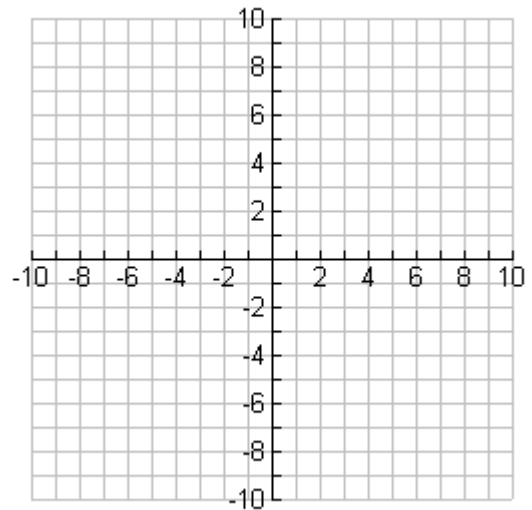
# Investigating Slope

(using the graphing calculator)

Name \_\_\_\_\_

1. Graph these lines which have positive slope.  
Sketch the graphs on the grid at the right.

```
Plot1 Plot2 Plot3
\Y1=2X+1
\Y2=X+1
\Y3=.5X+1
\Y4=
\Y5=
\Y6=
\Y7=
```

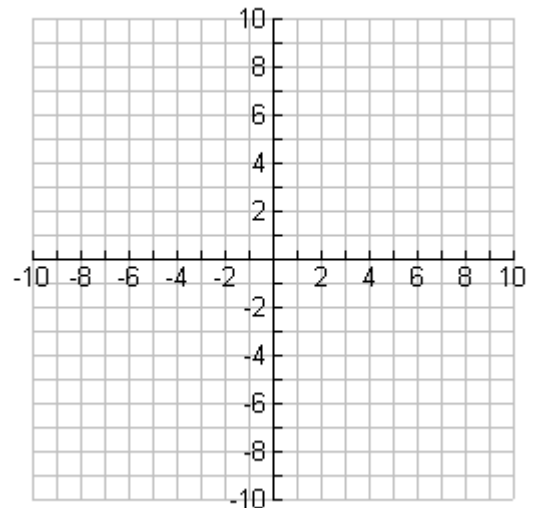


What do you notice about lines with positive slopes?

What happens to the lines as these positive slopes increase (get bigger)?

2. Graph these lines that have negative slopes.

```
Plot1 Plot2 Plot3
\Y1=-2X+3
\Y2=-X+3
\Y3=-.5X+3
\Y4=
\Y5=
\Y6=
\Y7=
```



What do you notice about lines with negative slopes?

What happens to the lines as these negative slopes decrease (get smaller)?

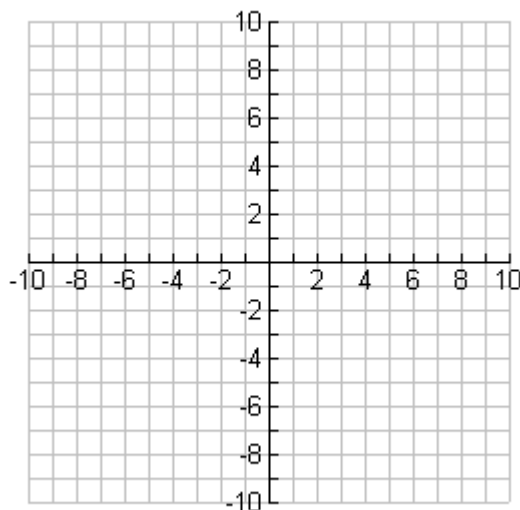
3. Graph these lines that have zero slopes.

```

Plot1 Plot2 Plot3
\Y1=0X+5
\Y2=2
\Y3=-5
\Y4=
\Y5=
\Y6=
\Y7=
    
```

What do you notice about lines with a zero slope?

How are all of these lines related to one another?



4. Graph these lines that have the same slopes.

```

Plot1 Plot2 Plot3
\Y1=2X+5
\Y2=2X
\Y3=2X-5
\Y4=
\Y5=
\Y6=
\Y7=
    
```

What do you notice about lines with the same slope?

State a rule based on your observations about lines having the same slopes.

