Calculator Graphing Warm Up
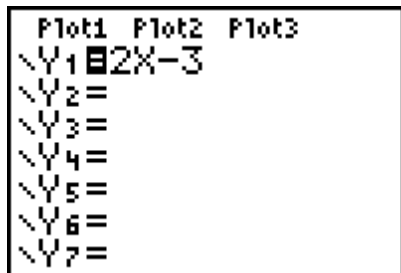
Let's play with our calculators a little bit as we talk about equations of lines:
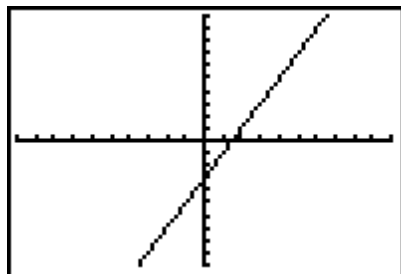
Press ZOOM and choose 6:ZStandard.

Press Y= to see the screen where you enter equations.

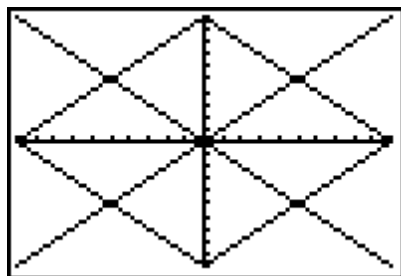Type in $y_1=2x-3$.   (Use the second key on the second row to get the x.)

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

Press GRAPH to see the graph.

Cool!   Now, see if you can match these calculator pictures.   Write down the equations that you use.
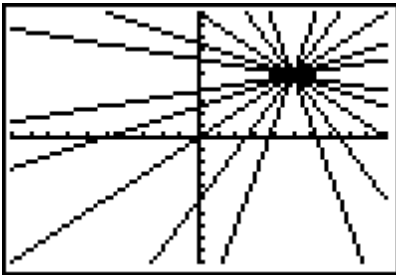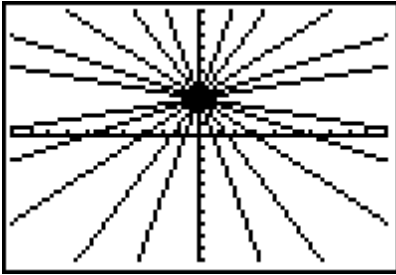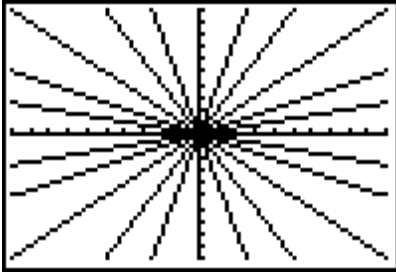

$y_1=$

$y_2=$

$y_3=$

$y_4=$

$y_5=$

$y_6=$

Hint: Use the point-slope formula for a line:
$$y = m(x - x_1) + y_1$$
where m = slope
and (x_1, y_1) = some point on the line