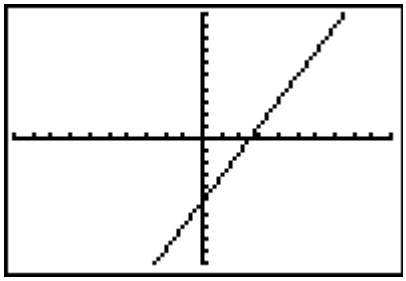
Lines on the Calculator

Before starting, reset your calculator to the standard zoom (press ZOOM 6).

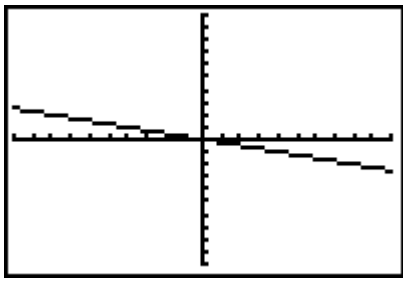
Directions: Find function(s) that you can enter into your calculator to make a graph that approximately matches each of the screens shown below. Record the functions you use. You won't have to use all of Y_1 through Y_6 in some of the problems. To display more than 1 line at a time, simply enter the different equations on different Y = lines.

1.



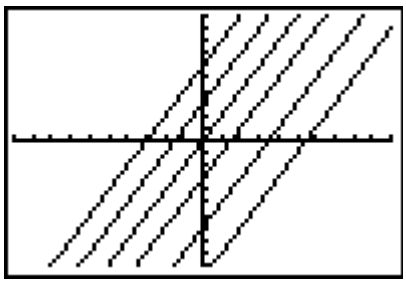
$Y_1 =$
$Y_2 =$
$Y_3 =$
$Y_4 =$
$Y_5 =$
$Y_6 =$

2.



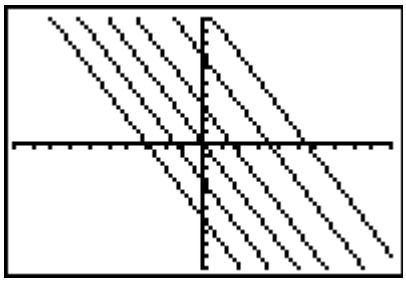
$Y_1 =$
$Y_2 =$
$Y_3 =$
$Y_4 =$
$Y_5 =$
$Y_6 =$

3.



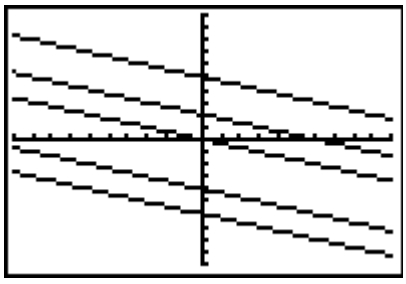
$Y_1 =$
$Y_2 =$
$Y_3 =$
$Y_4 =$
$Y_5 =$
$Y_6 =$

4.



$Y_1 =$
$Y_2 =$
$Y_3 =$
$Y_4 =$
$Y_5 =$
$Y_6 =$

5.



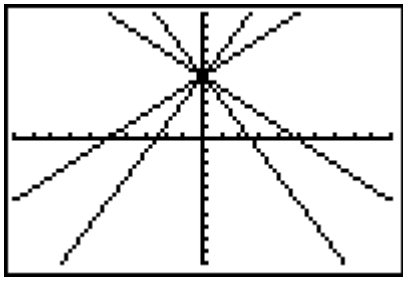
$Y_1 =$
$Y_2 =$
$Y_3 =$
$Y_4 =$
$Y_5 =$
$Y_6 =$

Directions: Find function(s) that you can enter into your calculator to make a graph that approximately matches each of the screens shown below. Record the functions you use. You won't have to use all of Y_1 through Y_6 in some of the problems.

6.

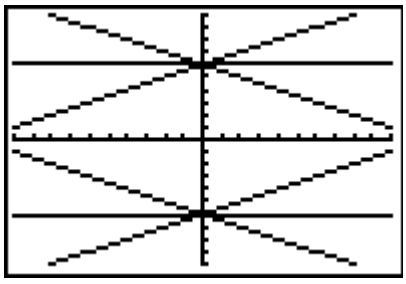
$Y_1 =$
$Y_2 =$
$Y_3 =$
$Y_4 =$
$Y_5 =$
$Y_6 =$

7.



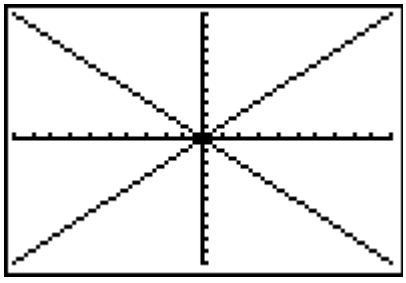
$Y_1 =$
$Y_2 =$
$Y_3 =$
$Y_4 =$
$Y_5 =$
$Y_6 =$

8.



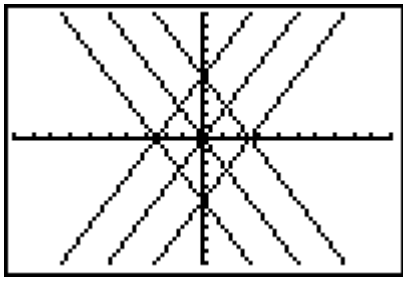
$Y_1 =$
$Y_2 =$
$Y_3 =$
$Y_4 =$
$Y_5 =$
$Y_6 =$

9.



$Y_1 =$
$Y_2 =$
$Y_3 =$
$Y_4 =$
$Y_5 =$
$Y_6 =$

10.



$Y_1 =$
$Y_2 =$
$Y_3 =$
$Y_4 =$
$Y_5 =$
$Y_6 =$

11. Make a set of five lines that are all parallel to the line $y = \frac{3}{4}x$. Write their equations, graph all of them on your calculator, and draw a picture of your calculator screen.

equation one:

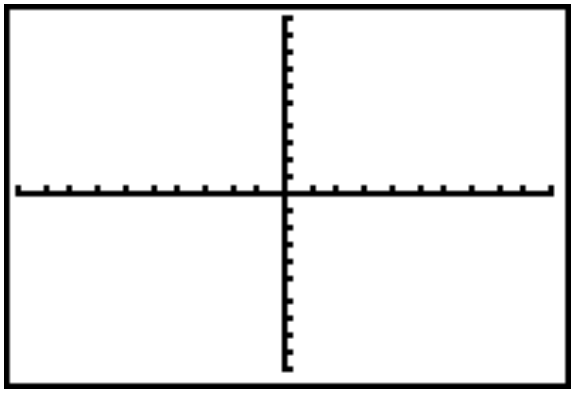
equation two:

equation three:

equation four:

equation five:

draw calculator screen:



12. Make a set of five lines all of which have ***y-intercepts*** at 2. Write their equations, graph all of them on your calculator, and draw a picture of your calculator screen.

equation one:

equation two:

equation three:

equation four:

equation five:

draw calculator screen: