Advanced Math
1-1
Graphs and Graphing Utilities

Use a graphing utility to graph the equation. Use a standard setting. Find the x- and y-intercepts of the graph. *Zoom 6*
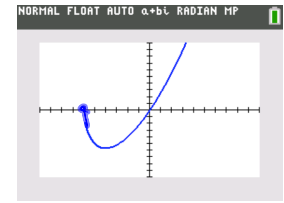
> How do you find x - intercepts? *put zero in for y ; Zeros (calc)*
>
> How do you find y - intercepts? *put zero in for x; Trace to zero*
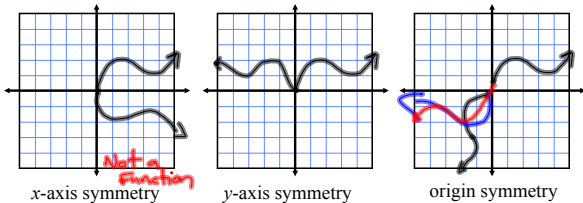
17) $y = x\sqrt{x+6}$

y-int: (0,0)
x-int: {0,-6}

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Draw the missing portion of the graph so it has the following:

x-axis symmetry   *Not a function*

y-axis symmetry

origin symmetry

Check for symmetry with respect to each axis and to the origin.

23) $x - y^2 = 0$

$\sqrt{x} = \sqrt{y^2}$
$\sqrt{x} = |y|$
$\pm\sqrt{x} = y$
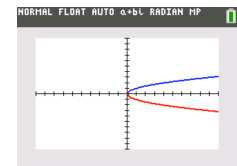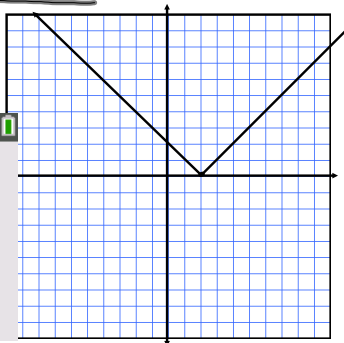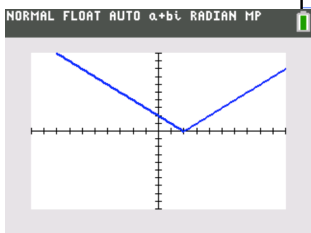
x-axis symmetry

$Y_1 = \sqrt{x}$
$Y_2 = -\sqrt{x}$
$Y_3 =$

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Sketch the graph of the equation by point plotting. Test for symmetry.

47) $y = |x - 2|$

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Assignment:
Pg. 114
14-28 even,
29-38 all,
40 - 60 even,

Note: 11 graphs