Pre-Calculus lesson p.2

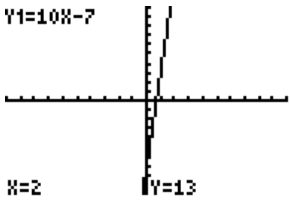
Solution points of an equation:

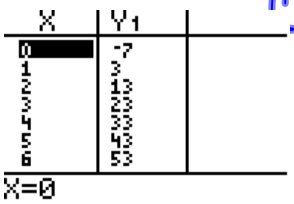
Is (2,13) a solution of the equation $y = 10x - 7$

x y

$13 = 10(2) - 7$

$13 = 20 - 7$





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Is (-1, -3) a solution point of the equation

$y = 10x - 7$

$10(-1) - 7$

$-10 - 7$

$= -17$

NO

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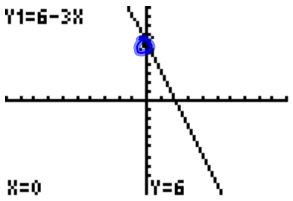
Graphing using a graphing utility – approximate all x and y intercepts

LINEAR

$3x + y = 6$

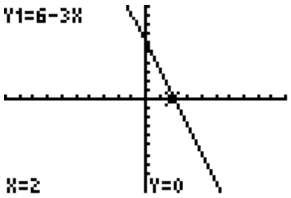
$-3x \quad -3x$

$y = 6 - 3x$



yint = 6

yint = (0,6)



xint = 2

xint = (2,0)

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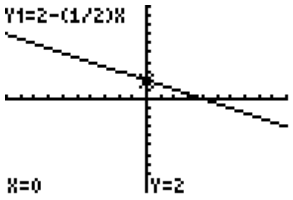
$2x + 4y = 8$

$-2x \quad -2x$

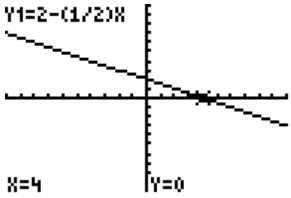
$4y = 8 - 2x$

$y = 2 - \frac{1}{2}x$

yint = 2



xint = 4



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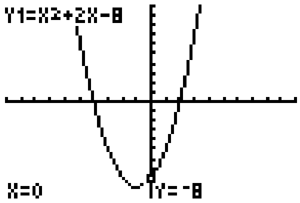
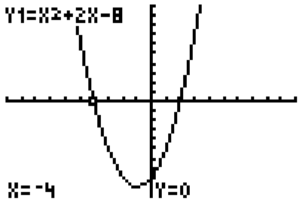
QUADRATIC

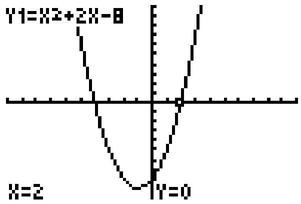
$y = x^2 + 2x - 8$

yint= -8



xint= -4 and 2





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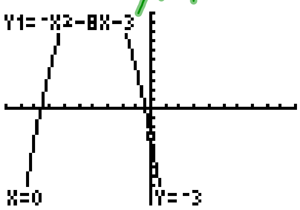
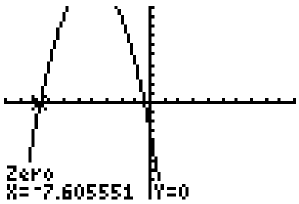
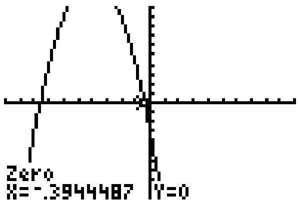
$y = -2x^2 - 8x - 3$

yint= -3



xint= -7.61 and -.39





1 E-12 = 0

~~0.00000000001~~ = 0

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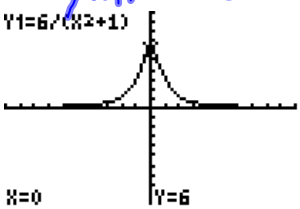
$$y = \frac{6}{x^2 + 1}$$

yint = 6

xint = NONE



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