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Alg II T 4.1: Graphing Absolute Value Functions

1) Given $y = |x|$, fill in the following t-chart and graph the points. Connect to form a graph of the absolute value function.

x	y= x
-2	2
-1	1
0	0
1	1
2	2

What is the shape of the graph? ∇

What is the slope of the two lines that create the graph? ± 1

What is the vertex (turning point) of the graph? $(0,0)$

What is the domain? $(-\infty, \infty)$ Range? $[0, \infty)$

2) Given $y = 2|x|$, fill in the following t-chart and graph the points. Connect to form a graph of the absolute value function.

x	y=2 x
-2	4
-1	2
0	0
1	2
2	4

What is the shape of the graph? ∇

What is the slope of the two lines that create the graph? ± 2

What is the vertex (turning point) of the graph? $(0,0)$

What is the domain? $(-\infty, \infty)$ Range? $[0, \infty)$

THINK ABOUT IT: Given $y = a|x|$, the shape of the graph will be ∇ and the slope of the two lines will be $\pm a$.

Given $y = -|x|$, fill in the following t-chart and graph the points. Connect to form a graph of the absolute value function.

x	y=- x
-2	-2
-1	-1
0	0
1	-1
2	-2

What is the shape of the graph? upside-down ∇

What is the slope of the two lines that create the graph? ± 1

What is the vertex (turning point) of the graph? $(0,0)$

What is the domain? $(-\infty, \infty)$ Range? $(-\infty, 0]$

THINK ABOUT IT: Given $y = a|x|$, if a is negative, the graph will flip upside-down.

The graphs of $y = |x|$, $y = |x-4|$ and $y = |x+2|$ are shown.

What is the vertex for $y = |x-4|$? $(4,0)$

What is the vertex for $y = |x+2|$? $(-2,0)$

THINK ABOUT IT: Given $y = |x+k|$, the graph moves up/down.

The graphs of $y = |x|$, $y = |x-4|$ and $y = |x+2|$ are shown.

What is the vertex for $y = |x-4|$? $(4,0)$

What is the vertex for $y = |x+2|$? $(-2,0)$

THINK ABOUT IT: Given $y = |x+h|$, the graph moves left/right.

Kuta Software - Infinite Algebra 2

Function Inverses

State if the given functions are inverses.

1) $g(x) = 4 - \frac{3}{2}x = 4$
 $f(x) = \frac{1}{2}x + \frac{3}{2} = \frac{3}{2}$

2) $g(n) = \frac{-12-2n}{3} = -4$
 $f(n) = \frac{-5+6n}{5} = -1$

3) $f(n) = \frac{-16+n}{4} = -4$
 $g(n) = 4n + 16 = 20$

4) $f(x) = -\frac{4}{7}x - \frac{16}{7} = -\frac{64}{14}$
 $g(x) = \frac{3}{2}x - \frac{3}{2} = -\frac{3}{2}$

5) $f(n) = -(n+1)^2 = 1$
 $g(n) = 3+n^2 = 3$

6) $f(n) = 2(n-2)^2 = -16$
 $g(n) = \frac{4+\sqrt{4n}}{2} = 2$

7) $f(x) = \frac{4}{-x-2} + 2 = 0$
 $h(x) = -\frac{1}{x+3} = -\frac{1}{3}$

8) $g(x) = -\frac{2}{x} - 1$
 $f(x) = -\frac{2}{x+1} = -2$

Find the inverse of each function.

9) $h(x) = \sqrt{x} - 3$

10) $g(x) = \frac{1}{x} - 2$

11) $h(x) = 2x^2 + 3 = 3$

12) $g(x) = -4x + 1 = 1$

see notes!

KutaSoftware: PreCalc
 Piecewise Functions

1) $f(x) = \begin{cases} -2x-1, & x \leq 2 \\ -x+4, & x > 2 \end{cases}$

x	f(x)
0	-2(0)-1 = -1
1	-2(1)-1 = -3
2	-2(2)-1 = -5
2	-2+4 = 2
3	-3+4 = 1
4	-4+4 = 0

2) $f(x) = \begin{cases} -4, & \\ x-2, & \\ -2x+4, & \end{cases}$

Matrix Equations - Inverses Required

Solve each equation.

1) $\begin{bmatrix} 4 & -2 \\ -7 & 2 \end{bmatrix} X = \begin{bmatrix} -6 \\ 12 \end{bmatrix}$

2) $\begin{bmatrix} -1 & 1 \\ 5 & -2 \end{bmatrix} C = \begin{bmatrix} 4 \\ -26 \end{bmatrix}$

3) $\begin{bmatrix} 2 & -3 \\ -5 & 5 \end{bmatrix} Z = \begin{bmatrix} -1 \\ 20 \end{bmatrix}$

4) $\begin{bmatrix} 1 & -9 \\ 1 & 0 \end{bmatrix} Z = \begin{bmatrix} -35 \\ -8 \end{bmatrix}$

5) $\begin{bmatrix} -1 & 2 \\ -6 & 10 \end{bmatrix} Z = \begin{bmatrix} 6 \\ 22 \end{bmatrix}$

6) $3X = \begin{bmatrix} 12 & -12 \\ 21 & -27 \end{bmatrix}$

7) $\begin{bmatrix} 25 & 13 \\ 13 & 9 \end{bmatrix} = \begin{bmatrix} 7 & -2 \\ 3 & -2 \end{bmatrix} X$

8) $\begin{bmatrix} 20 & -3 \\ 15 & -3 \end{bmatrix} = \begin{bmatrix} -6 & -5 \\ -5 & -4 \end{bmatrix} X$

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