

Daily Agenda

Learning Target:  
I can graph transformations of functions.

<p><b>Homework</b> 1.7 Worksheet</p>	<p><b>Assessments</b> Unit 1 Test 9/15 No Calculator</p>
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Enthusiasm is the mother of effort, and without it nothing great was ever achieved.  
-Ralph Waldo Emerson

Nov 15-8:24 PM

Number Talks

338

Lauren

$$\begin{array}{r} 10 \times 26 = 260 \\ 25 \times 3 = 75 \\ 1 \times 3 = 3 \\ \hline 338 \end{array}$$

$13 \times 26$

Shannon

$$\begin{array}{r} 13 \times 10 = 130 \\ 13 \times 10 = 130 \\ 13 \times 6 = 78 \\ \hline 338 \end{array}$$

Kate

$$\begin{array}{r} 10 \times 26 = 260 \\ 3 \times 26 = 78 \\ \hline 338 \end{array}$$

$13 \times 13 \times 2$   
 $13 \times 13 = 169$   
 $170 \times 2 = 340$   
 $1 \times 2 = 2$   
338

Sep 1-7:08 AM

1.7 Transformations of Functions

Graph  $g(x)$ . State the domain and range. Describe the shift from the parent function.

$g(x) = |x-1|$

D:  $(-\infty, \infty)$  all reals  
R: all non-neg #'s  $y \geq 0; [0, \infty)$

right 1  
left 1

$g(x) = |x+1|$   
left 1

Nov 8-1:55 PM

1.7 Transformations of Functions

Graph  $g(x)$ . State the domain and range. Describe the shift from the parent function.

$g(x) = (x+2)^2 - 3$

left 2  
down 3

D: all real #'s  
R:  $y \geq -3$

Vertical Shift

- outside grouping symbols
- same direction

Horizontal

- inside grouping symbols
- opposite direction

Nov 8-1:55 PM

1.7 Transformations of Functions

Graph  $g(x)$ . State the domain and range. Describe the shift from the parent function.

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

reflects over x-axis  
right 1  
up 4

D:  $(-\infty, \infty)$   
R:  $y \leq 4$

Nov 8-1:55 PM

1.7 Transformations of Functions

Describe the shifts from the parent function.

$g(x) = -(x+2)^2 - 1$

reflect over x-axis  
← 2 ↓ 1

D:  $(-\infty, \infty)$   
R:  $y \leq -1$

Nov 8-1:55 PM