Entry Routine:
Seated in assigned seat at the bell
Packet, pencil, and planner out
All other materials stored under
tables / desks
Start the Warm up
SLANT
I will check HW:
7.6B p38 #11-13, 23-26

Social / Emotional:
I can show respect for others by
listening, encouraging, congratulating,
helping, and thanking.

Learning Target:
I can write quadratic
equations in standard,
vertex, and factored
(intercept) form. I can
identify the features
highlighted in each

Warm Up: p37 #7-9 and extra problems

Simplify: \( \sqrt{68} \cdot 5 \)

Factor: \( 2x^2 + 14x + 12 \)

Multiply the following binomial
7. \((4x + 5)^2\)
Homework answers: 7.6B p38 #11-13, 23-26

11a. (-2, -64)  
11b. (-6, 0), (2, 0)  
11c. (0, -48)  
11d. 4

12a. (2, 48)  
12b. (-2, 0), (6, 0)  
12c. (0, 36)  
12d. -3

13a. (-6, -1)  
13b. (-7, 0), (-5, 0)  
13c. (0, 35)  
13d. 1

Find the x-intercepts by multiplying out the vertex form and factoring into intercept form.

23a. (-2, -64)  
23b. (-6, 0), (2, 0)  
23c. (0, -48)  
23d. 4

24a. (2, 48)  
24b. (-2, 0), (6, 0)  
24c. (0, 36)  
24d. -3

25a. (-6, -1)  
25b. (-7, 0), (-5, 0)  
25c. (0, 35)  
25d. 1

26a. $4(x - 2)(x + 6) = 4(x + 2)^2 - 64$

$4(x^2 + 4x - 12) = 4(x^2 + 4x + 4) - 64$

$4x^2 + 16x - 48 = 4x^2 + 16x + 16 - 64$

$4x^2 + 16x - 48 = 4x^2 + 16x - 48$

26b. $-3(x + 2)(x - 6) = -3(x - 2)^2 + 48$

$-3(x^2 - 4x - 12) = -3(x^2 - 4x + 4) + 48$

$-3x^2 + 12x + 36 = -3x^2 + 12x - 12 + 48$

$-3x^2 + 12x + 36 = -3x^2 + 12x + 36$

26c. $(x + 5)(x + 7) = (x + 6)^2 - 1$

$x^2 + 12x + 35 = x^2 + 12x + 36 - 1$

$x^2 + 12x + 35 = x^2 + 12x + 35$
Assignments are posted on IC and the website: nraykovich.wordpress.com

Help: Homework Club and/or Tutoring

Homework due the next class day (unless otherwise noted)

Monday: 7.6 p38 #17-22
Tuesday: 7.6B p38 #11-13, 23-26
Wednesday: ASPIRE TESTING*

Thursday:

Friday:

Learning Target:
I can write quadratic equations in standard, vertex, and factored (intercept) form. I can identify the features highlighted in each

QUIZ on 04/12/2019
Work on #1 together as a class

Use your notes to write a quadratic function (in vertex, intercept, or standard form) for each graph.

What do you know?

vertex: (1, -8)
y-intercept: (0, -6)
x-intercepts: (-1, 0), (3, 0)

Which function form(s) is the easiest to write from the information you can find on the graph?

1. vertex form
2. intercept form
3. standard form

Function:

\[ f(x) = a(x-h)^2 + k \]

\[ = 2(x-1)^2 - 8 \]

\[ f(x) = 2(x-1)^2 - 8 \]

\[ f(x) = 2(x+n)(x-3) \]

\[ a = \frac{c-k}{h^2} \]

\[ a = \frac{-6-(-8)}{(1)^2} = 2 \]