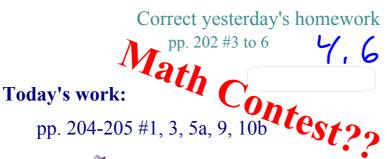
Before we begin, are there any questions from last day's work?

# Today's Learning Goal(s):

By the end of the class, I will be able to:

a) consolidate understanding of quadratic relations and be prepared for the unit summative.

# **Today's plan:** Return and correct SWYK 4.1



**Check some homework** 

Review Graphic Organizer: a, h, and k

Review Anchor Chart from 4.4\_1 (Day1), for Domain and Range. (See next slide)

## **Review Day 1**

#### MPM 2DI Unit 4 Quadratic Relations Review Questions

Read my additional instructions per questions where applicable.

#### p. 202 #3-6

#### Only do these ones:

#3

#4 The independent variable is time. For part a) you must create a TABLE OF VALUES (for t = 0 to t = 80). Count by 10s for time.

#5

#6 <u>See below.</u> Do not sketch any of the curves.

<u>You may fill in the values using the table at the bottom of this page.</u>

#### p. 202 #6. The first one is done for you.

	a)	b)	c)	d)
Property	$y = (x-1)^2 - 4$	$y = 2(x+3)^2 + 1$	$y = \frac{1}{4}(x-5)^2 + 1$	$y = -(x+2)^2 + 6$
Vertex	(1, -4)			
(Equation of the) Axis of Symmetry	x = 1			
Stretch or compression factor relative to $y = x^2$	Neither since the factor is $a = 1$			
Direction of opening	Up			
Values $\mathcal{X}$ may take (called Domain)	$\{x \in \mathbf{R}\}$			
Values $y$ may take (called Range)	$\left\{ y \in \mathbf{R} / y \ge -4 \right\}$			

 $h = -2.5(20)^{2} + 200(20)$ 

b) it takes 80 min to fly from 10 to Mtr 1. C) the max. hoight is 4000m and occurs when £=40 min.

### Review Day 2 pp. 204-205 PRACTICE TEST

#### Treat this as a real test.

Do all questions in a maximum of 25 minutes, then check your answers with the back. Only do these ones:

**#1** Do a **GRAPH** (not a sketch) for all of them.

Be VERY aware of the ordered pairs required to display in the final graph especially for question c)

#3\* each question in #3 is worth 3 or 4 marks;

#5a\* explain your answer

#9

10b

Note: There is an additional OPTIONAL review sheet posted on the class webpage.

There is a second file right below it, which has the answers.

# p. 202 #6.

Relation: →	a) $y = (x-1)^2 - 4$	$b) y = 2(x+3)^2 + 1$	c) $y = \frac{1}{4}(x-5)^2 + 1$	$d) y = -(x+2)^2 + 6$
Property: ↓				
Vertex	(1, -4)	(-311)	(5,1)	(2,6)
(Equation of the) Axis of Symmetry	x = 1	X=-3	X=5	大=- <b>2</b>
Stretch or compression factor relave to $y = X^2$	Neither, since the factor is a=1	Stretched by a fedorga	conficsed by	neither
Direction of opening	Up	44	46	down
Values X may take (called Domain)	$\{x \in R\}$	Exeirs	EXER?	(KEIR)
Values y may take (called Range)	$\left\{ y \in R \mid y \ge -4 \right\}$	Eyere 1 y = 15	Eyere (y = 1)	EyGR y<6}

