Day 63

1. Opener

a) Factor: $3x^2 + 2x + 2$

b) Factor: $x^2 - 4x - 16$

c) Factor: $3x^4 - 5$

d) Factor: $5x^2 + 10x + 15$

e) What is the only letter that doesn't appear in a U.S. state?

5. Homework

Practice

$$8y^2 - 10y - 3$$

$$20m^3 - 18m^2 + 40m - 36$$

Challenge

5. Homework

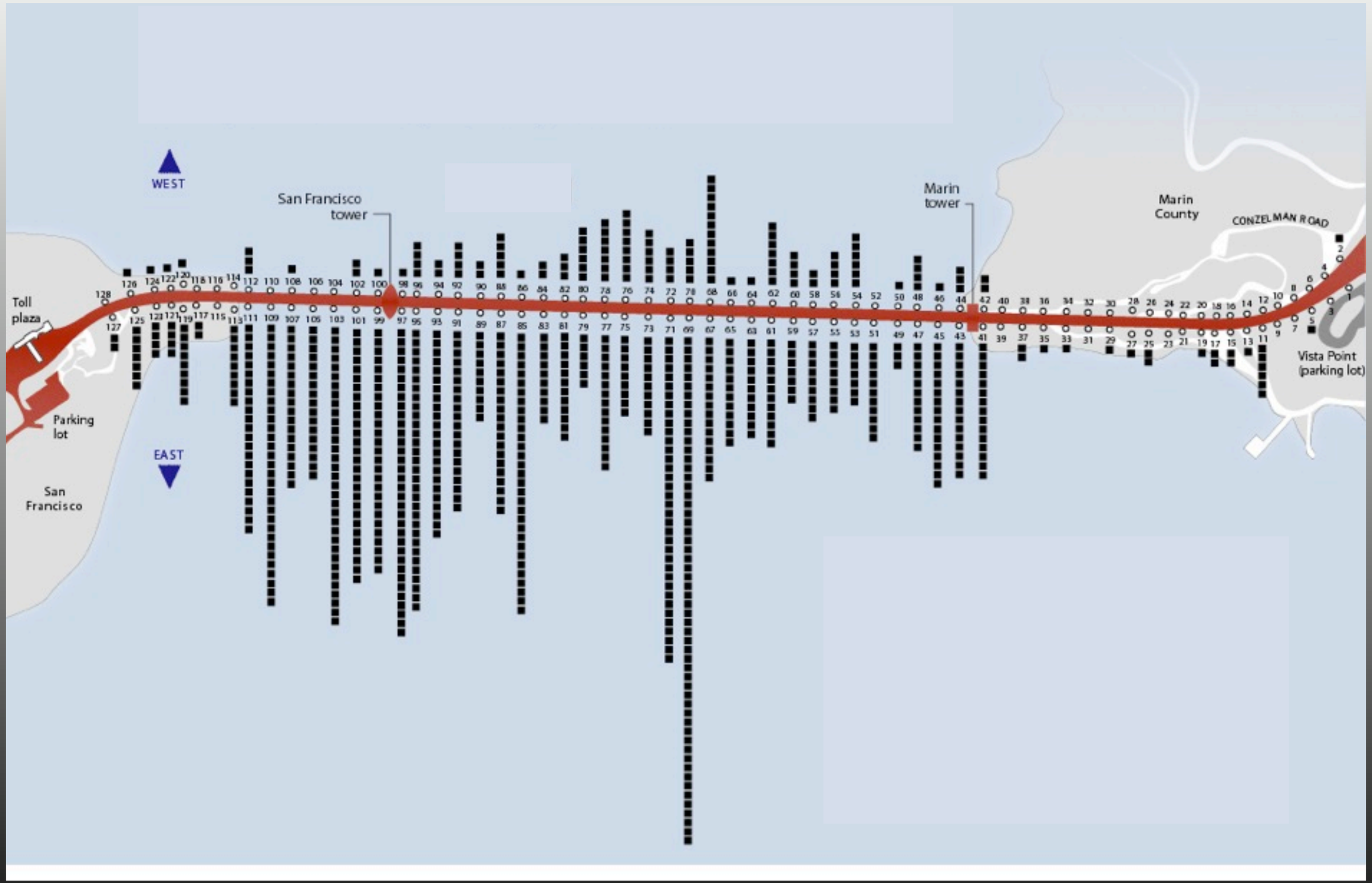
Practice

$$8y^2 - 10y - 3$$

$$20m^3 - 18m^2 + 40m - 36$$

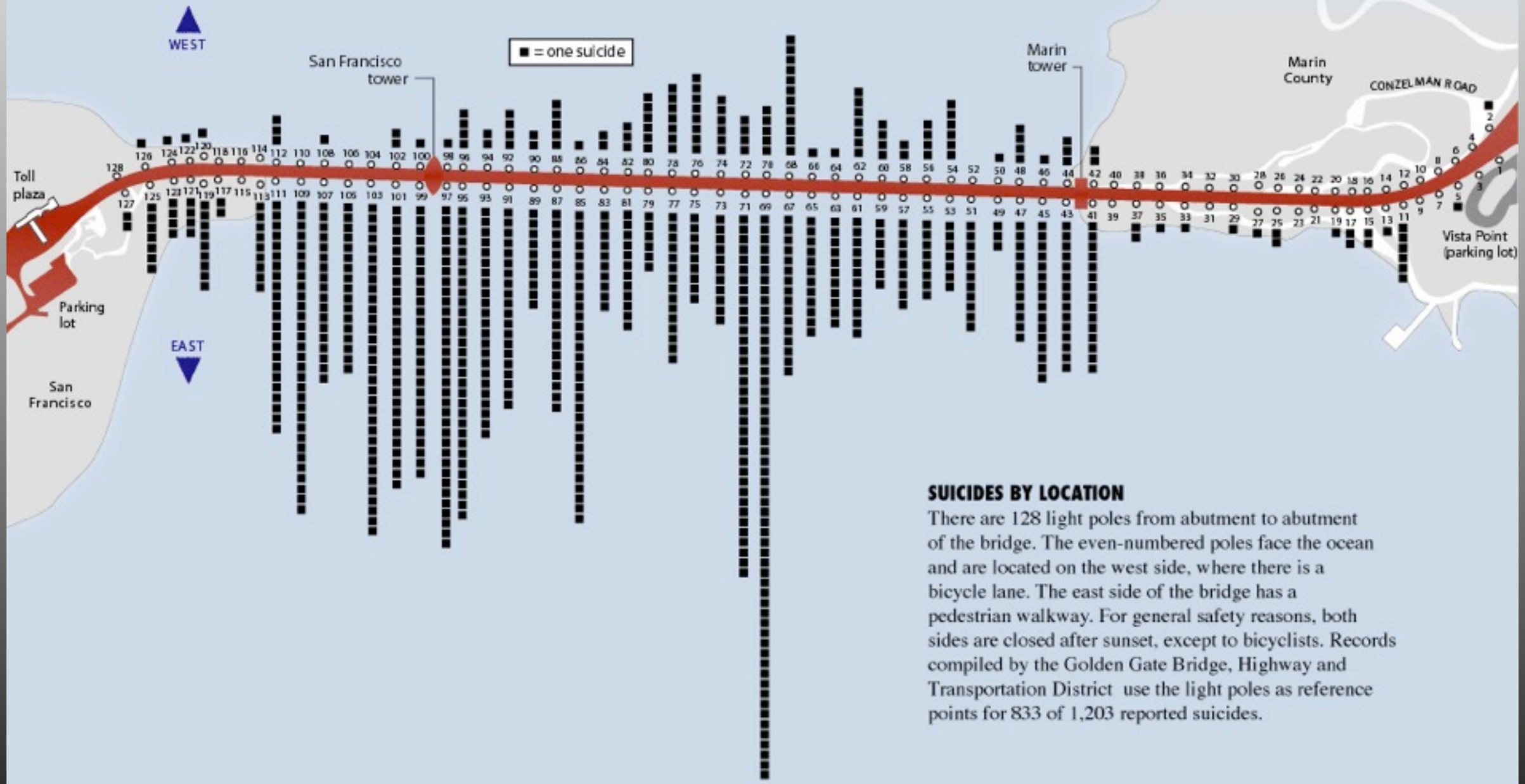
$$6t^2 + 26t + 24$$

Challenge


WEST
EAST
San Francisco tower
Marin tower
Marin County
CONZELMAN ROAD
Toll plaza
Parking lot
San Francisco
Vista Point (parking lot)

The Sad Tally

The first suicide occurred 10 weeks after the bridge opened in 1937. Over the years there have been seven attempts to build a bridge barrier. While the design and cost have been debated, the deaths have continued. At least 1,218 suicides have been reported, according to Chronicle research.



SUICIDES BY LOCATION

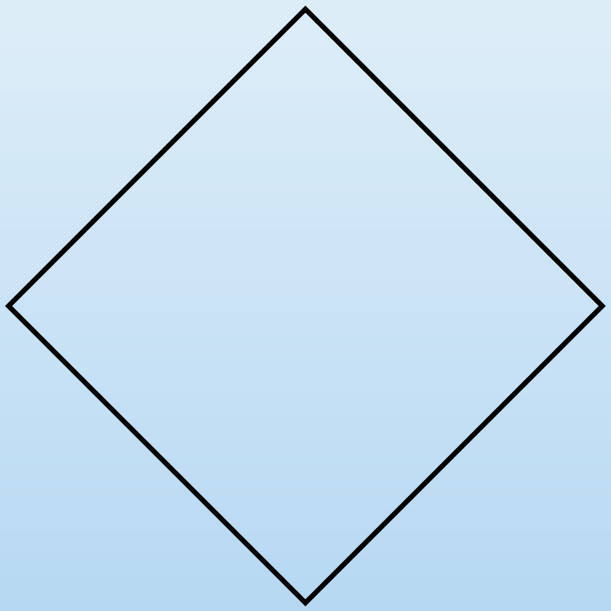
There are 128 light poles from abutment to abutment of the bridge. The even-numbered poles face the ocean and are located on the west side, where there is a bicycle lane. The east side of the bridge has a pedestrian walkway. For general safety reasons, both sides are closed after sunset, except to bicyclists. Records compiled by the Golden Gate Bridge, Highway and Transportation District use the light poles as reference points for 833 of 1,203 reported suicides.

Friday 3/6/9:

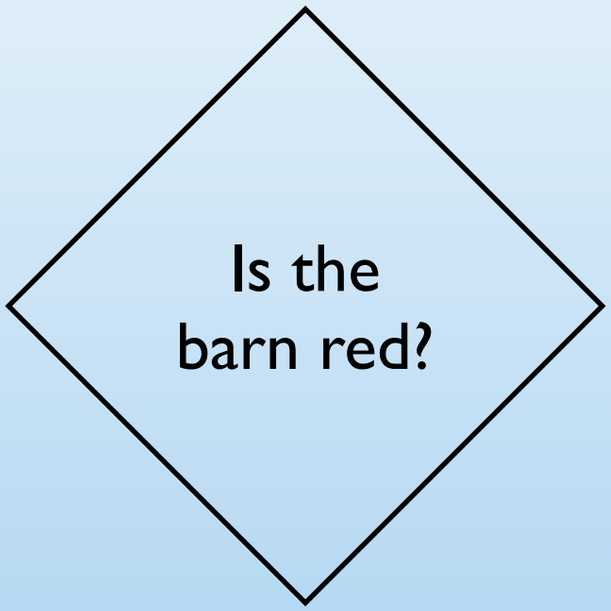
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	AVG
Fourth	**80**	90	**70**	43	**43**	60										**64**
Sixth	57	**100**	48	**57**	38	**65**										61

2. Factor Flowchart

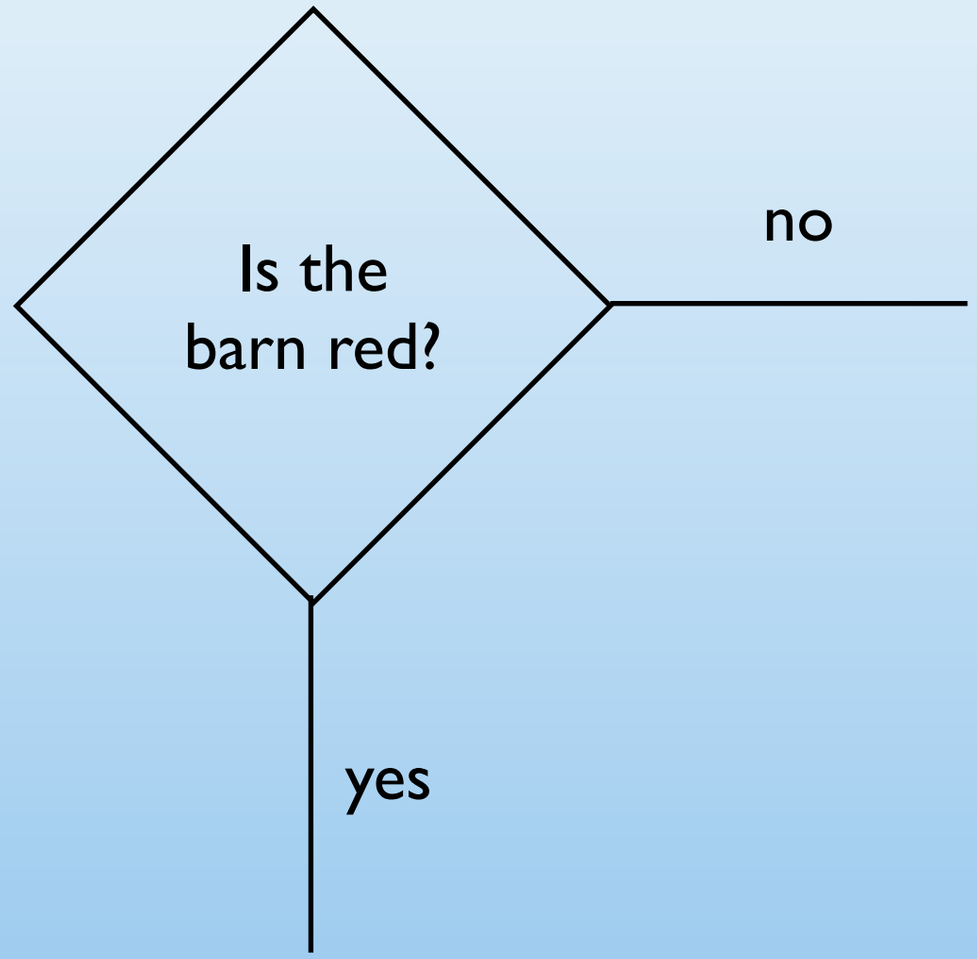
2. Factor Flowchart



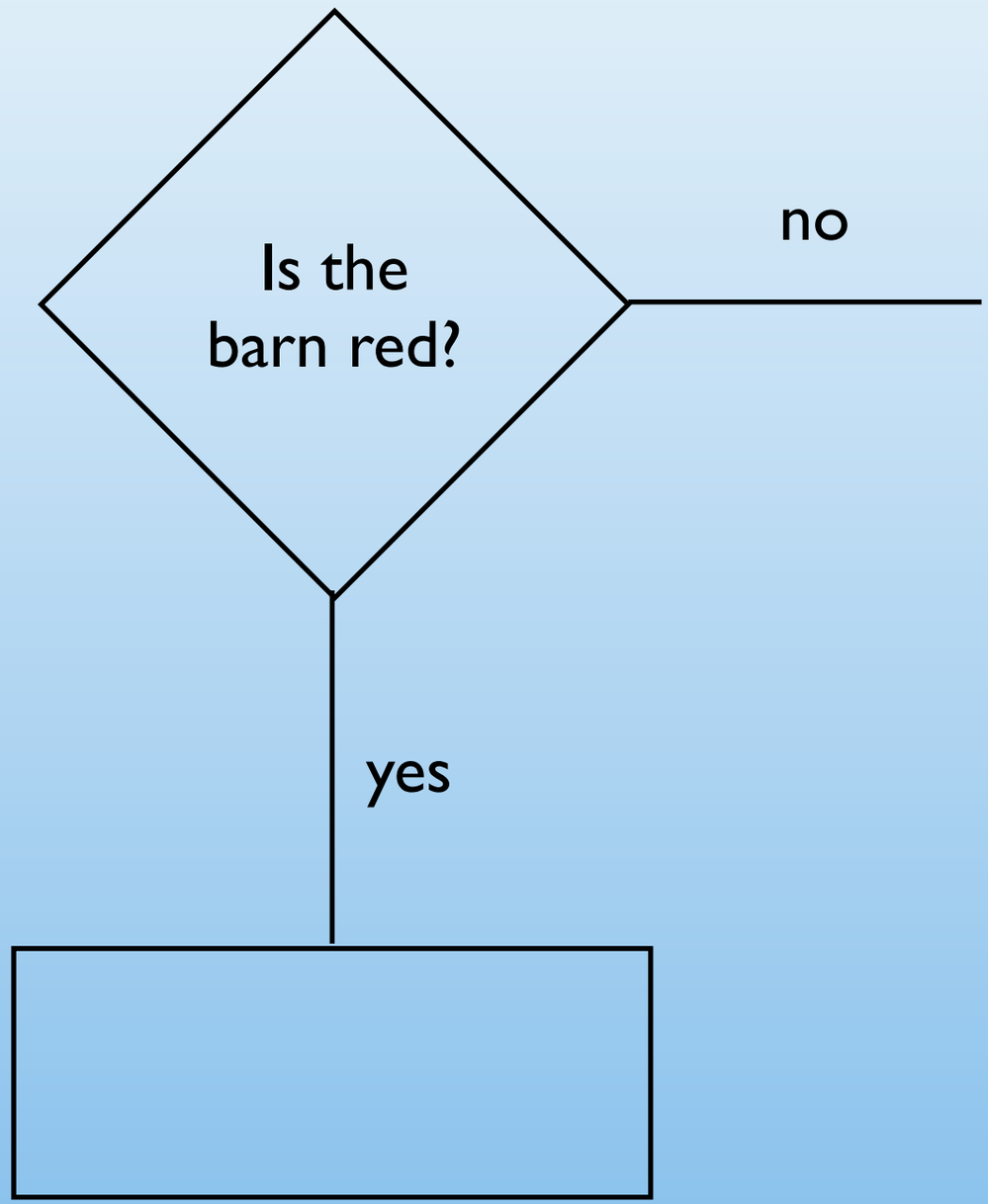
2. Factor Flowchart



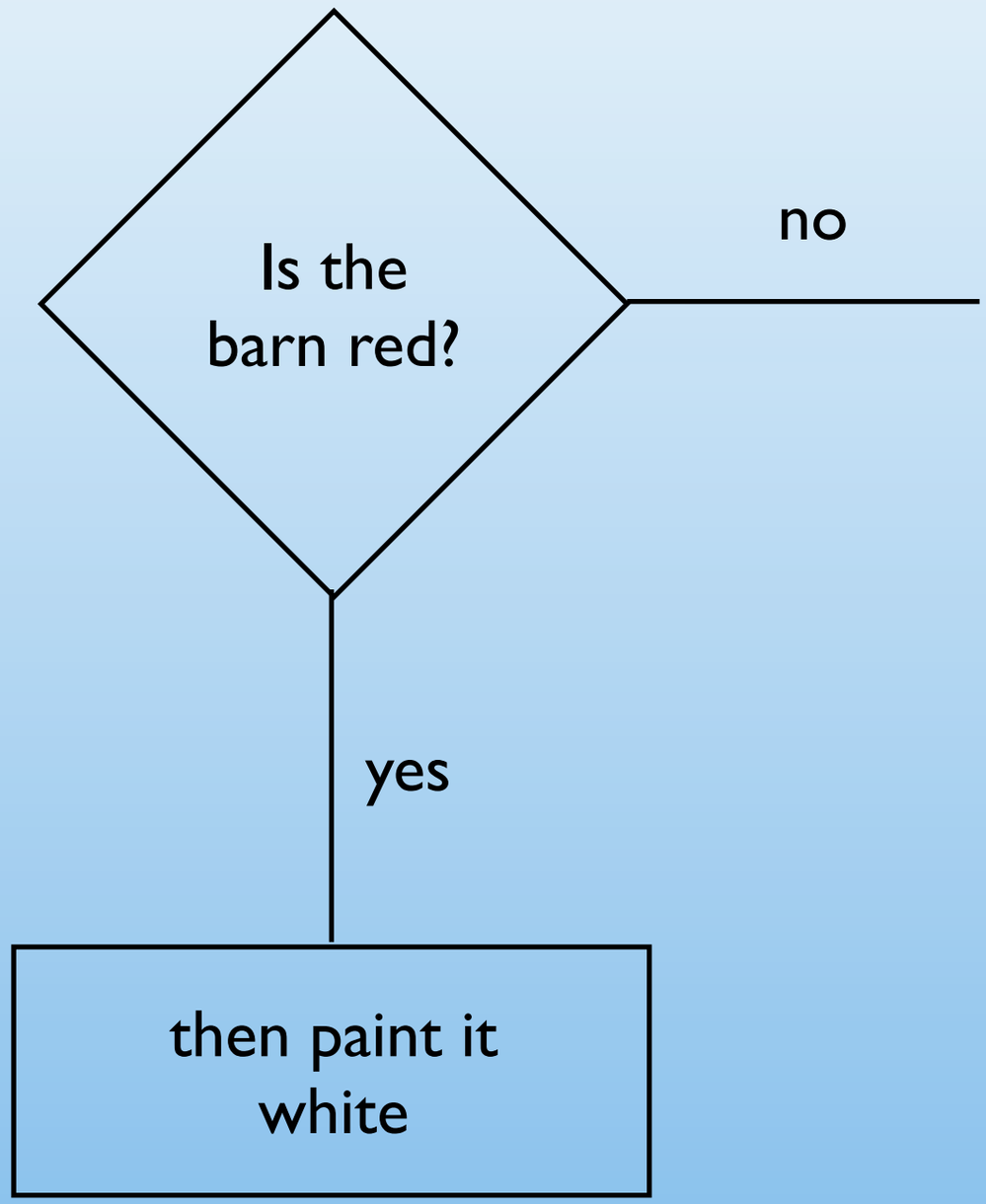
2. Factor Flowchart



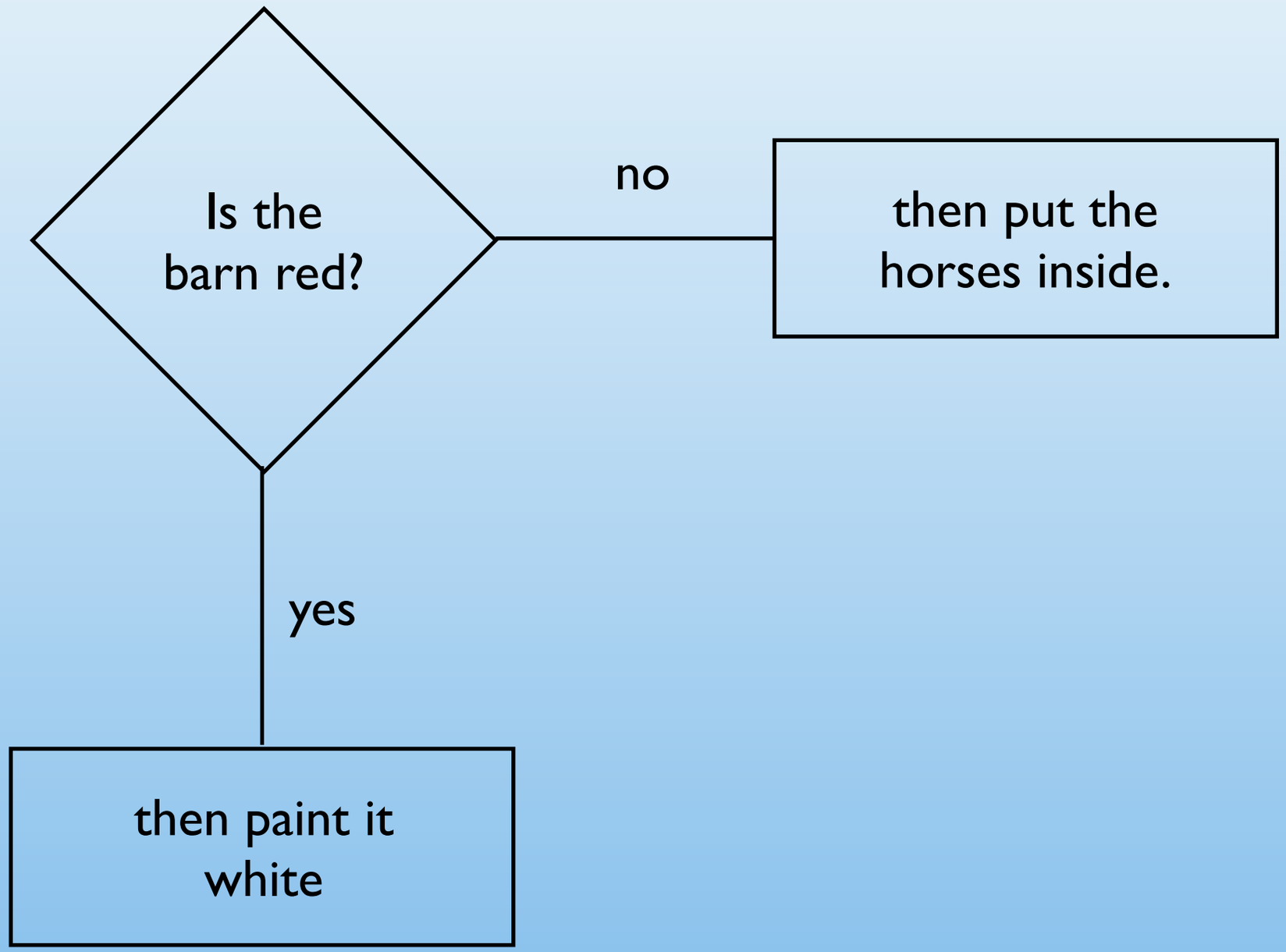
2. Factor Flowchart



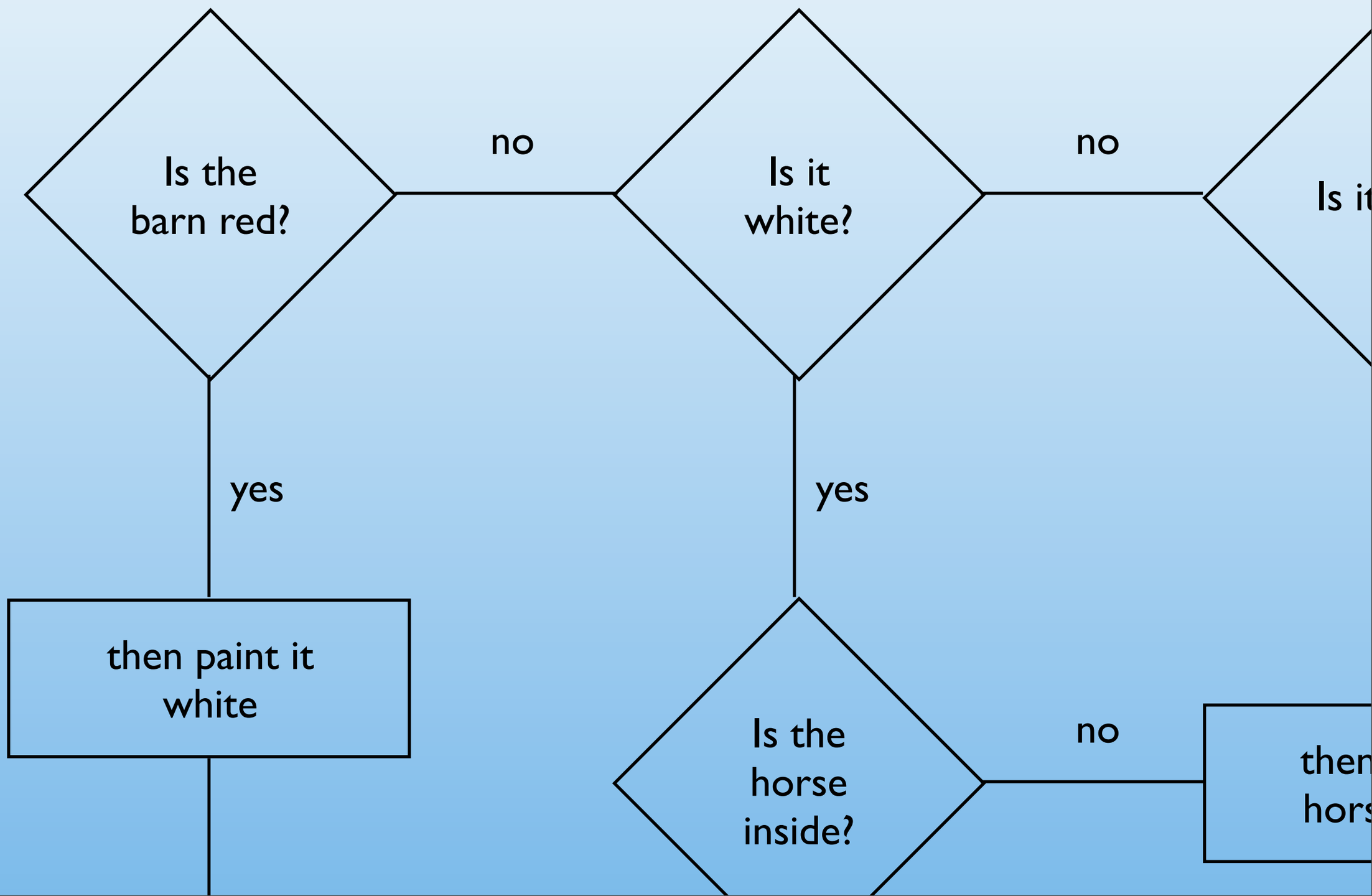
2. Factor Flowchart



2. Factor Flowchart



2. Factor Flowchart



3. Race Car Math

$$6x^5 - 8x^3$$

3. Race Car Math

$$15a^3b^4 + 5ab^2$$

3. Race Car Math

$$x^2 - 7x - 30$$

3. Race Car Math

$$x^2 - 5x + 12$$

3. Race Car Math

$$5x^2 - 45$$

3. Race Car Math

$$-3y^2 + 3y + 36$$

3. Race Car Math

$$3x^2 + x - 2$$

3. Race Car Math

$$2x^2 + 4x + 1$$

3. Race Car Math

$$12x^2 + 4x + 1$$

3. Race Car Math

$$30x^2 - 5x - 5$$

3. Race Car Math

$$12t^3 + 16t^2 + 9t + 12$$

3. Race Car Math

$$2x^3 + 6x^2 + x + 3$$

5. Homework

Practice

$$9x^4 - 1$$

Challenge

Day 64

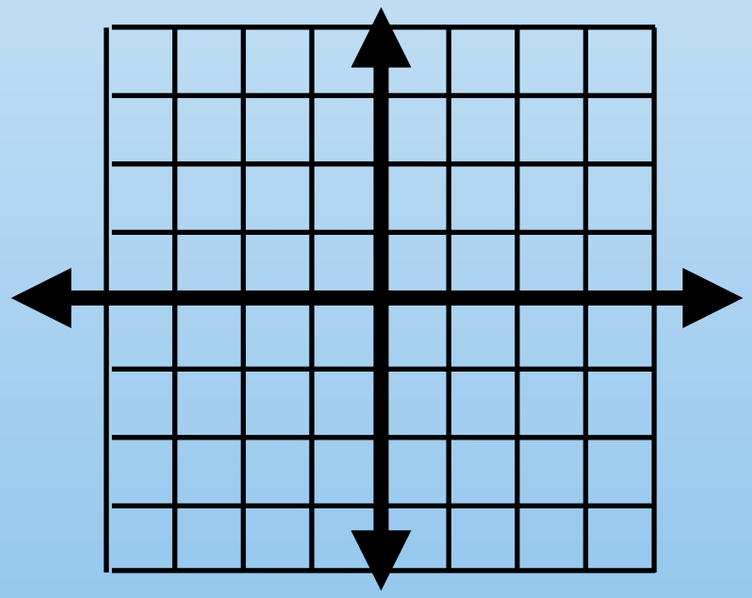
1. Opener

a) Factor: $30x^2 - 46x + 8$

b) Factor: $15t^5 + 6t^4 + 25t + 10$

c) Fill in the blank: $\left(3x^3 - 4x + 8\right) + \left(\qquad\qquad\right) = 1$

d) Graph: $y = 3x - 4$



e) What letter appears most often in the US states?

Day 64

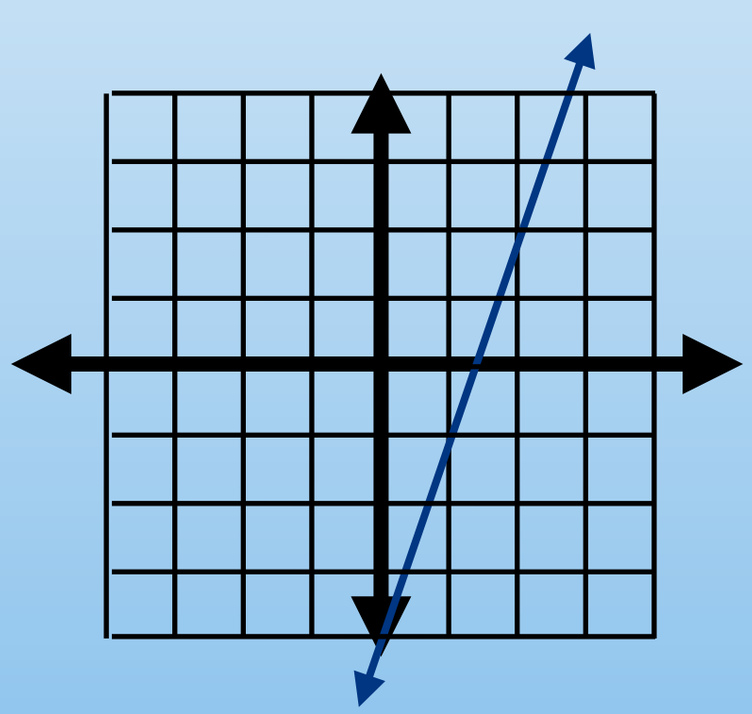
1. Opener

a) Factor: $30x^2 - 46x + 8$

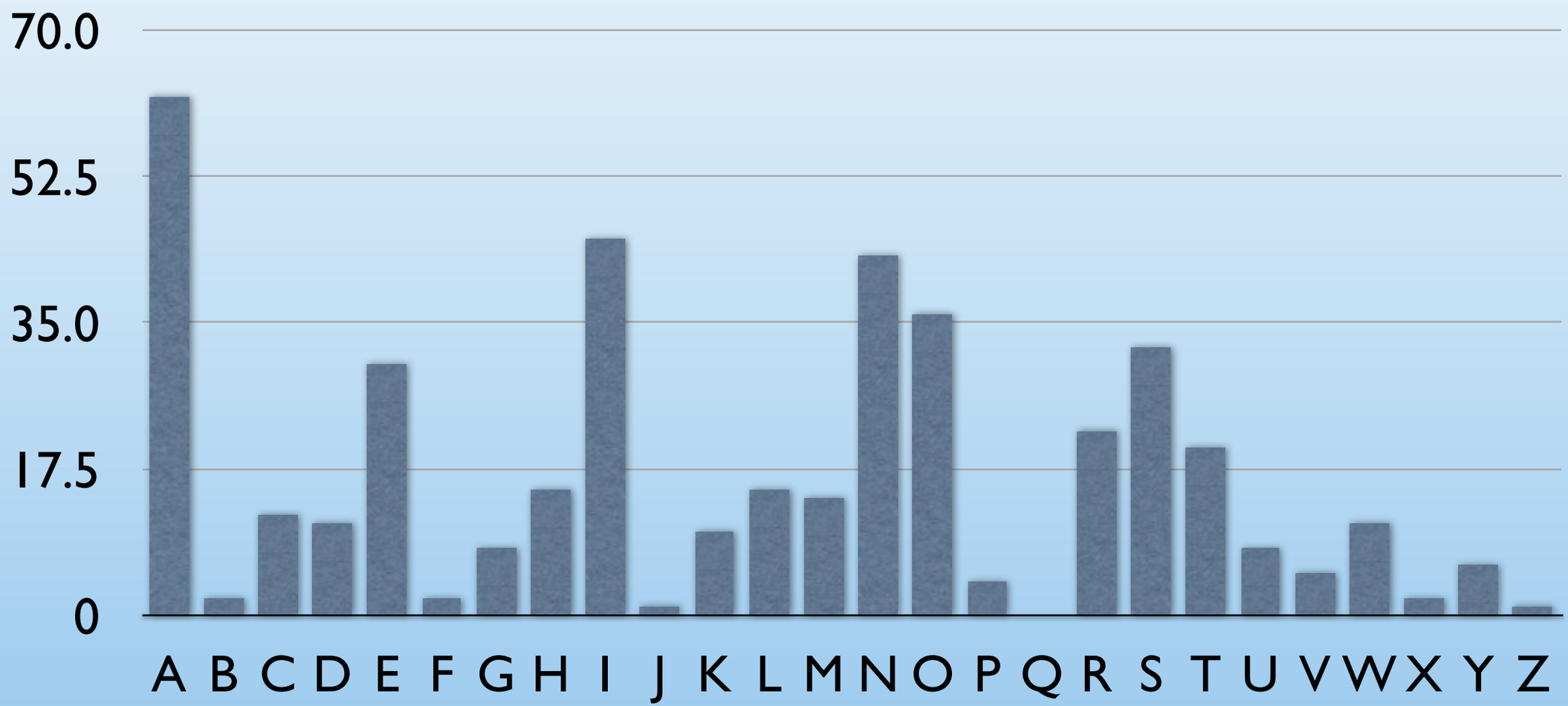
b) Factor: $15t^5 + 6t^4 + 25t + 10$

c) Fill in the blank: $\left(3x^3 - 4x + 8\right) + \left(\qquad\qquad\right) = 1$

d) Graph: $y = 3x - 4$



e) What letter appears most often in the US states?


70.0
52.5
35.0
17.5
0
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

5. Homework

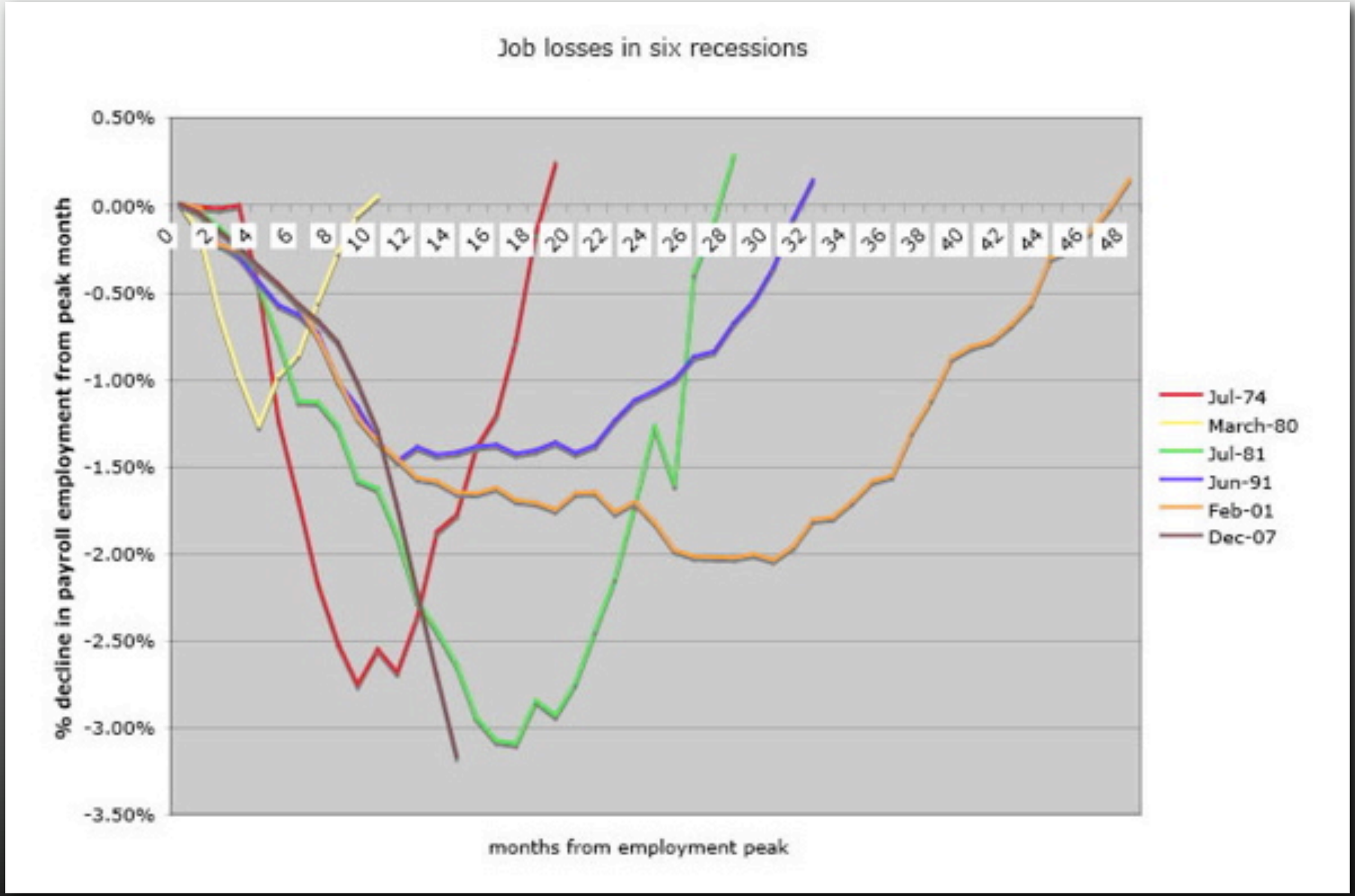
Practice

$$9x^4 - 1$$

Challenge

Friday 3/6/9:

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	AVG
Fourth	**80**	90	**70**	43	**43**	60										**64**
Sixth	57	**100**	48	**57**	38	**65**										61


Job losses in six recessions
0.50%
0.00%
-0.50%
-1.00%
-1.50%
-2.00%
-2.50%
-3.00%
-3.50%
% decline in payroll employment from peak month
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
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34
36
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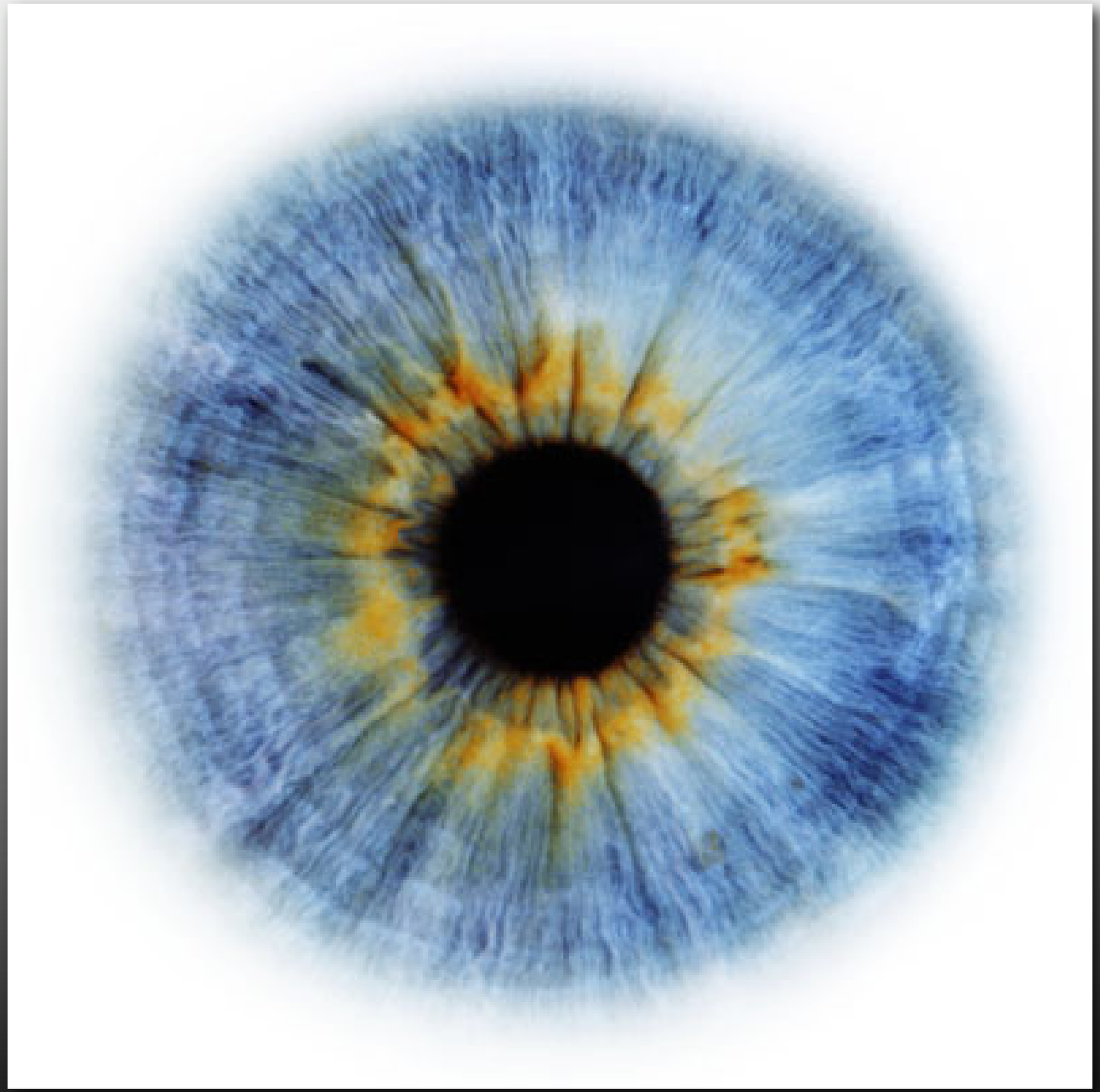
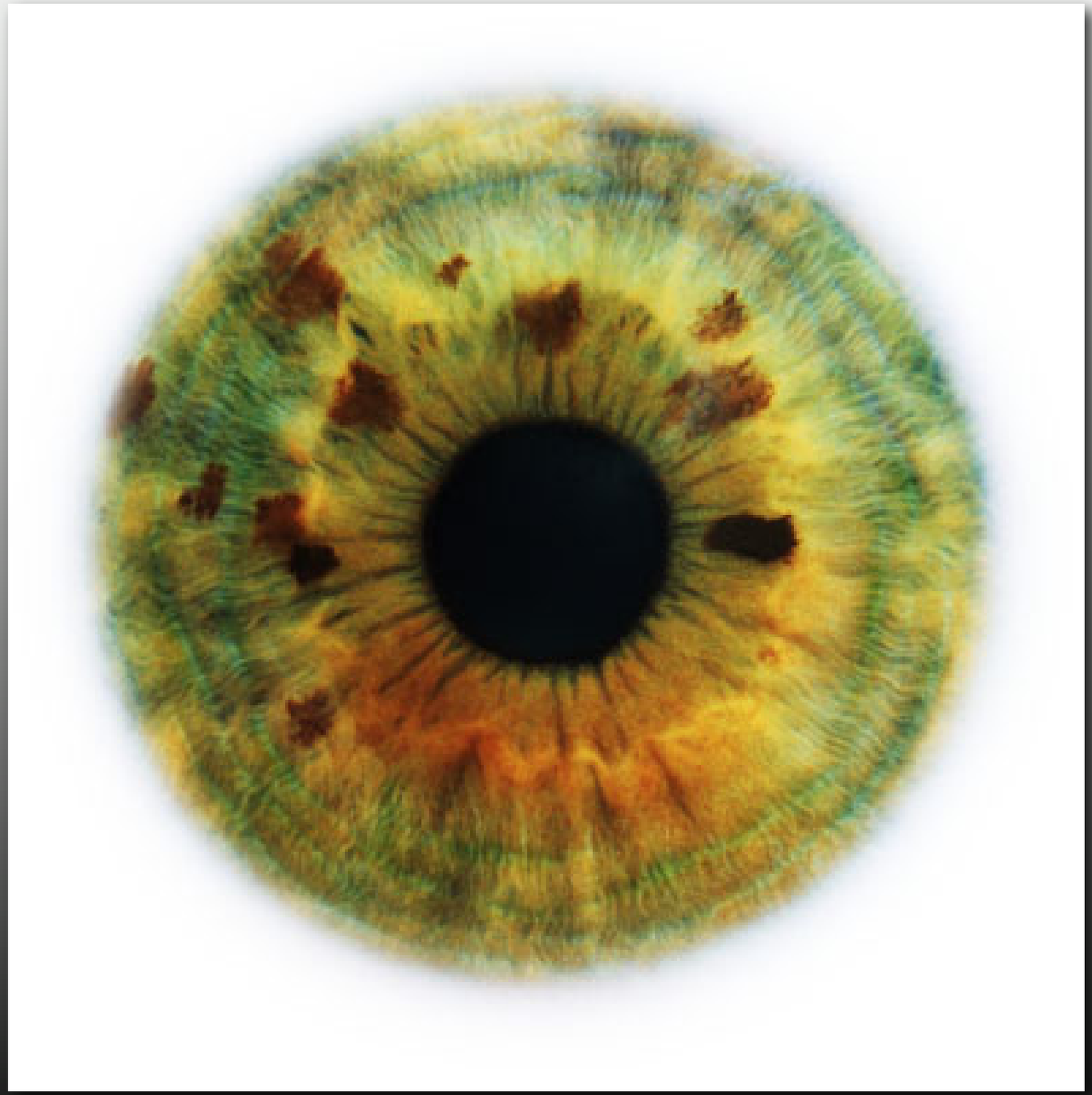
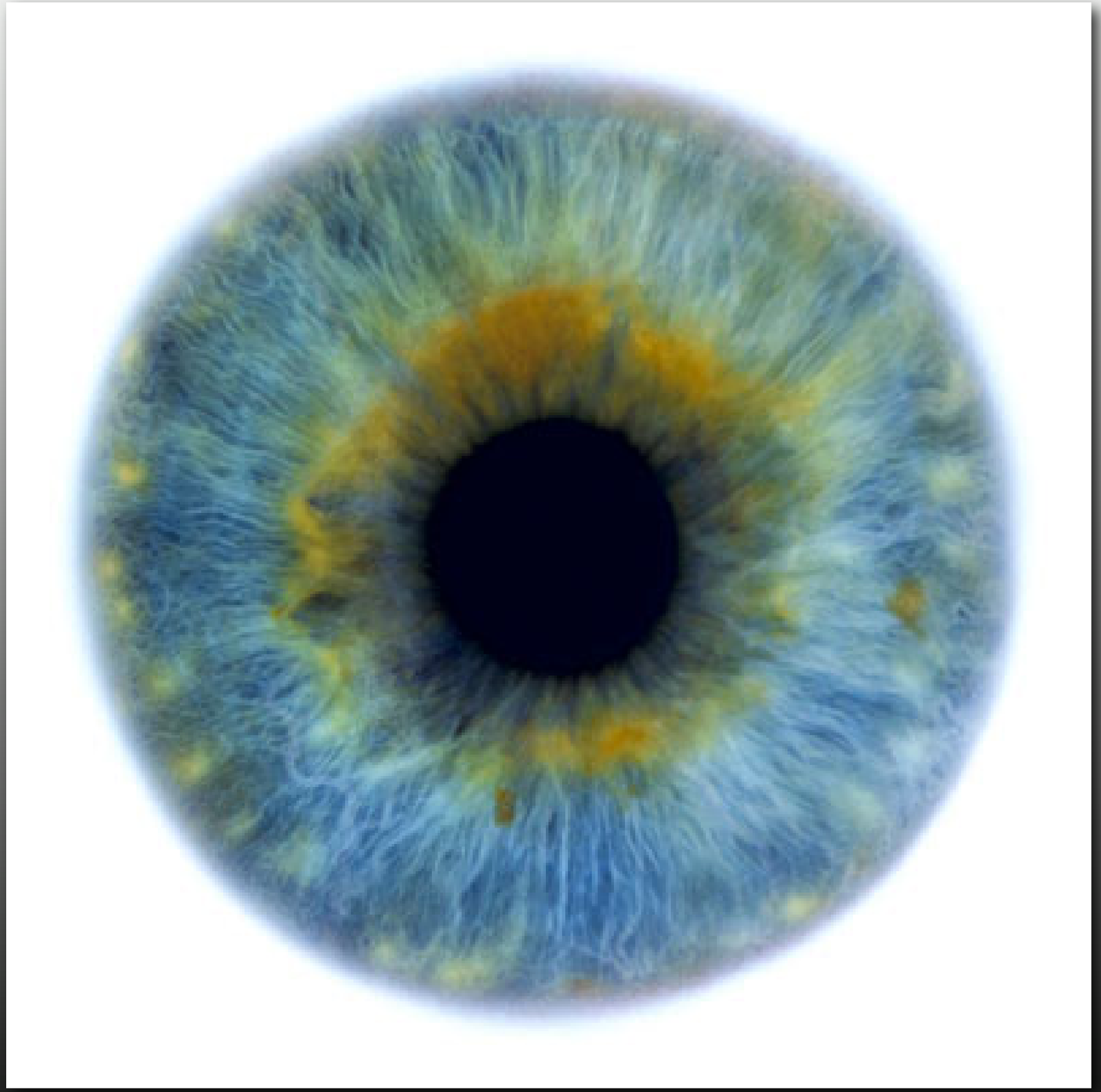
40
42
44
46
48
months from employment peak
Jul-74
March-80
Jul-81
Jun-91
Feb-01
Dec-07







3. Race Car Math

$$6x^5 - 8x^3$$

3. Race Car Math

$$15a^3b^4 + 5ab^2$$

3. Race Car Math

$$x^2 - 7x - 30$$


SEAL OF THE GOVERNOR OF THE STATE OF CALIFORNIA
IIIXXIX

3. Race Car Math

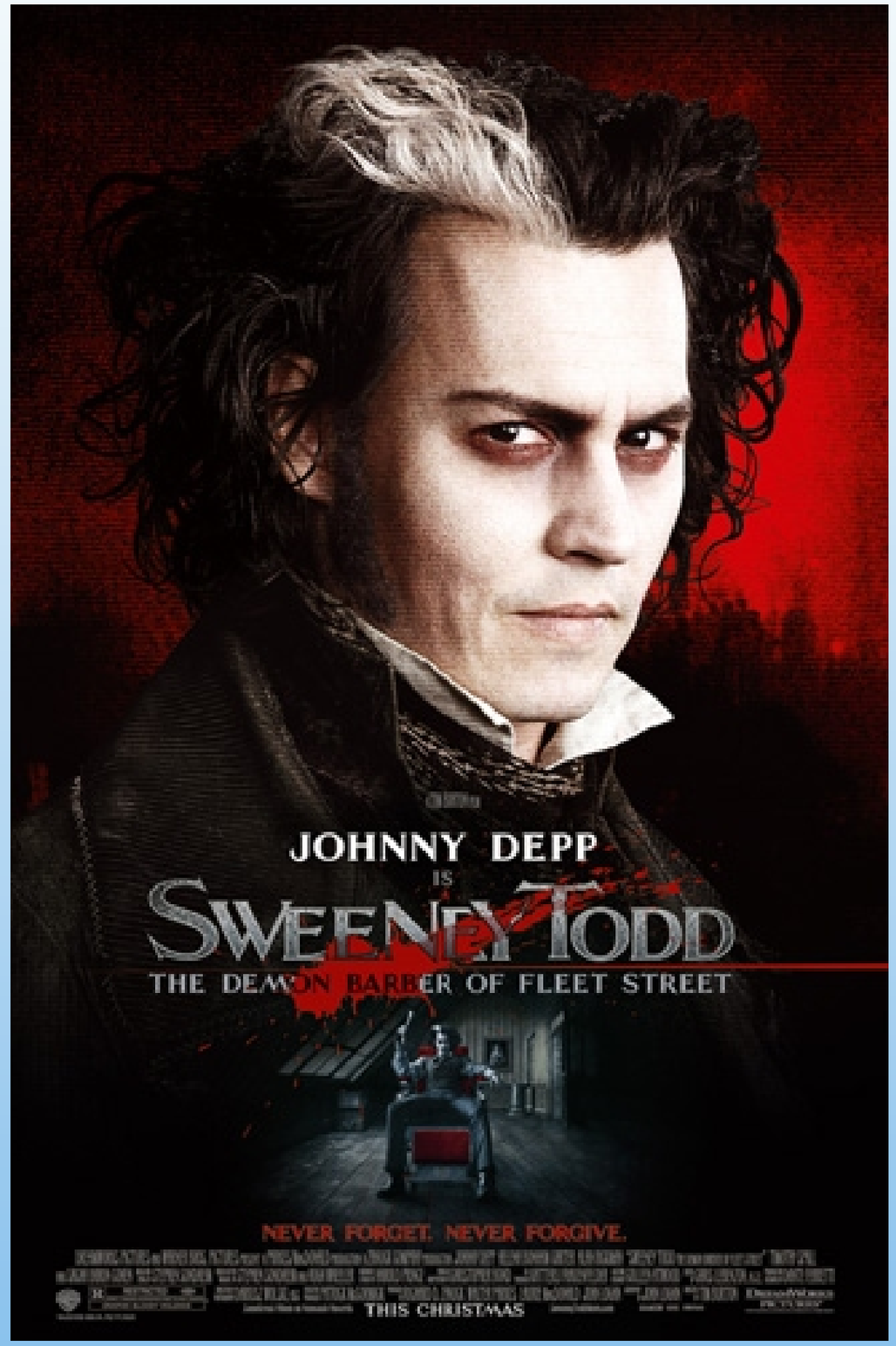
$$x^2 - 5x + 12$$

3. Race Car Math

$$5x^2 - 45$$

3. Race Car Math

$$3y^2 - 3y - 36$$


JOHNNY DEPP
IS
SWEENEY TODD
THE DEMON BARBER OF FLEET STREET
NEVER FORGET. NEVER FORGIVE.
THIS CHRISTMAS

3. Race Car Math

$$3x^2 + x - 2$$

3. Race Car Math

$$2x^2 + 3x + 1$$

3. Race Car Math

$$12x^2 + 4x + 1$$

3. Race Car Math

$$30x^2 - 5x - 5$$

3. Race Car Math

$$12t^3 + 16t^2 + 9t + 12$$

3. Race Car Math

$$2x^3 + 6x^2 + x + 3$$

3. Break

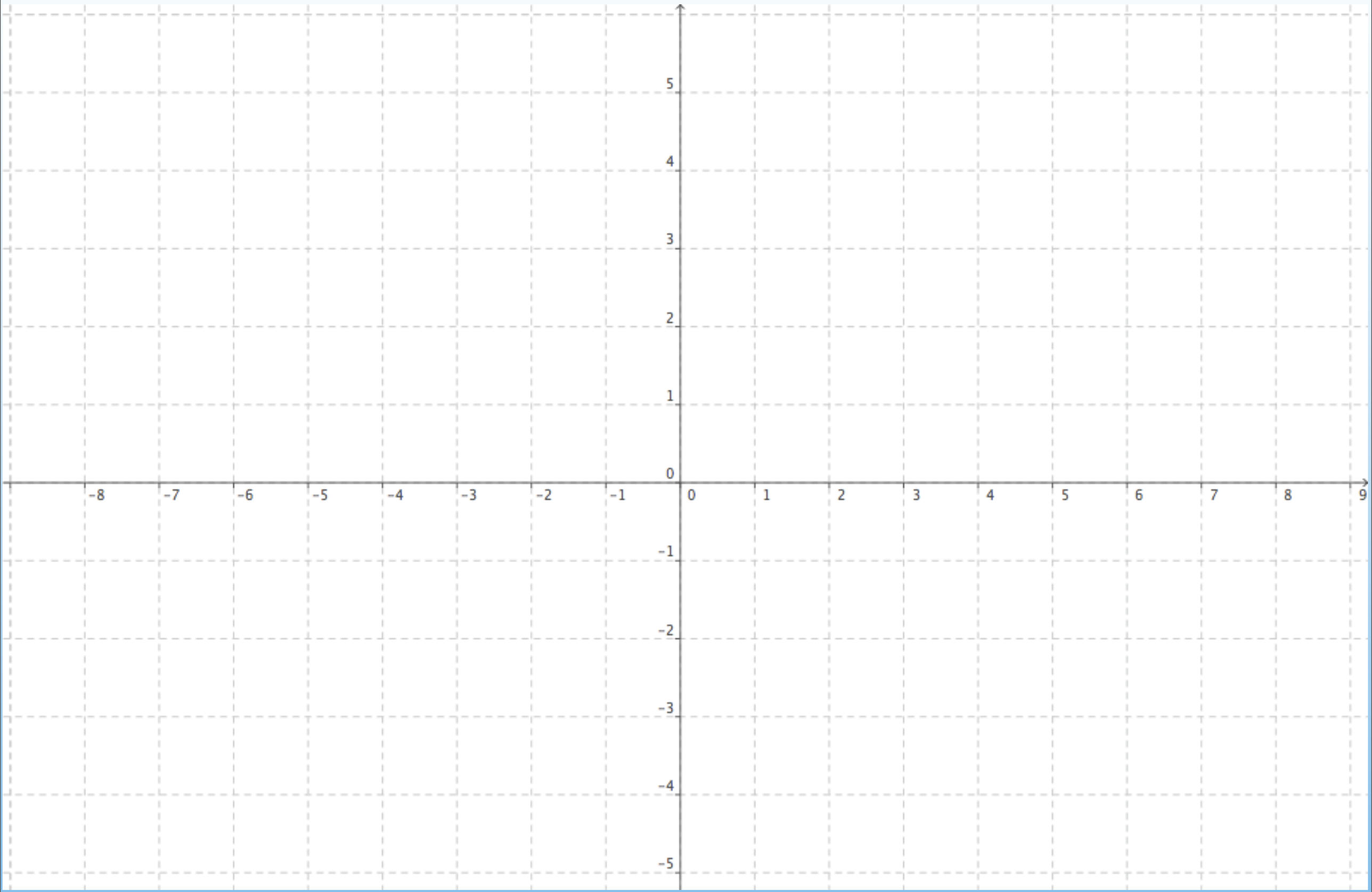
4. Show and Tell

5. Parabolas

$$y = 3x - 4$$

5. Parabolas

$$y = x^2$$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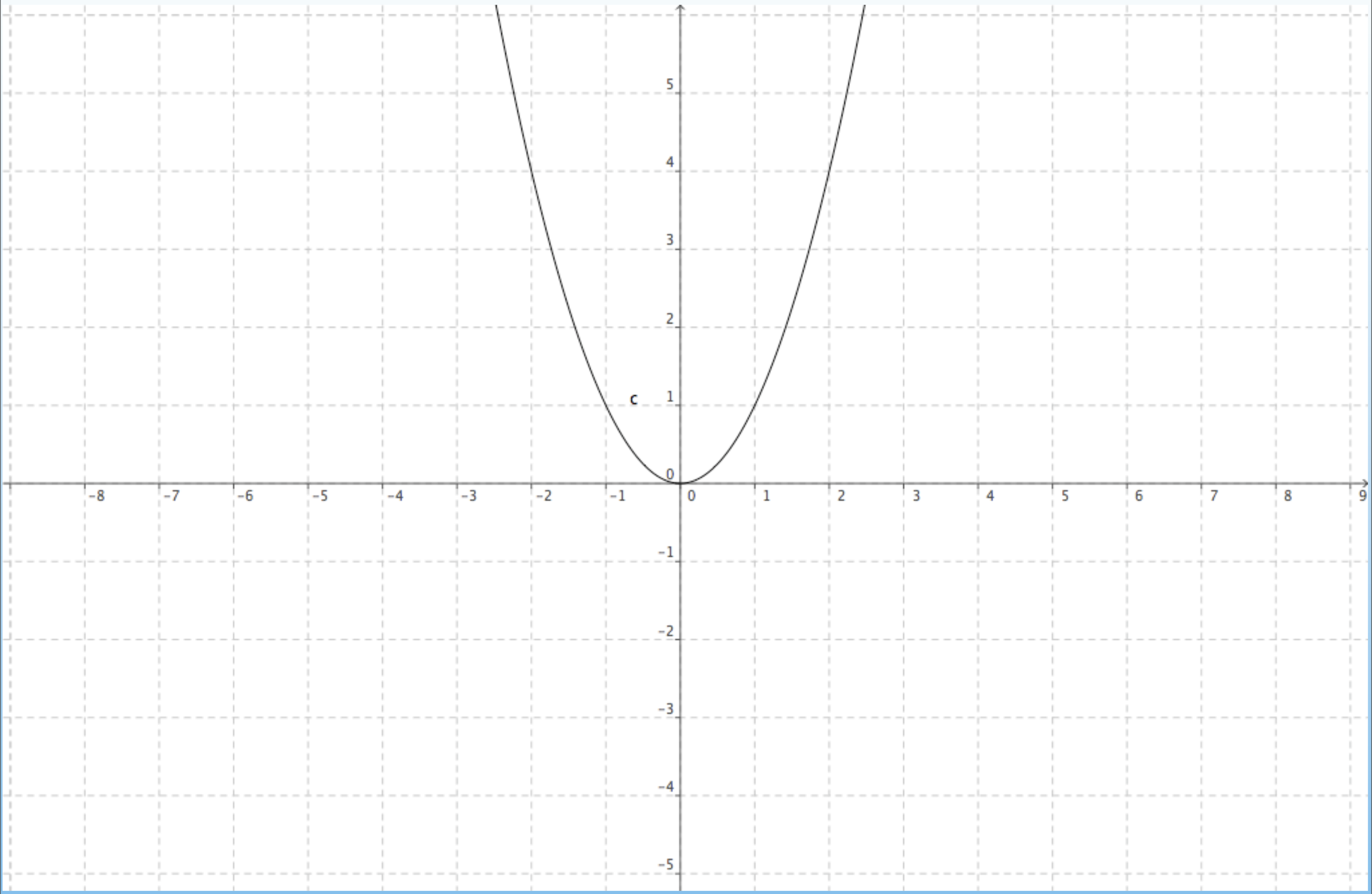
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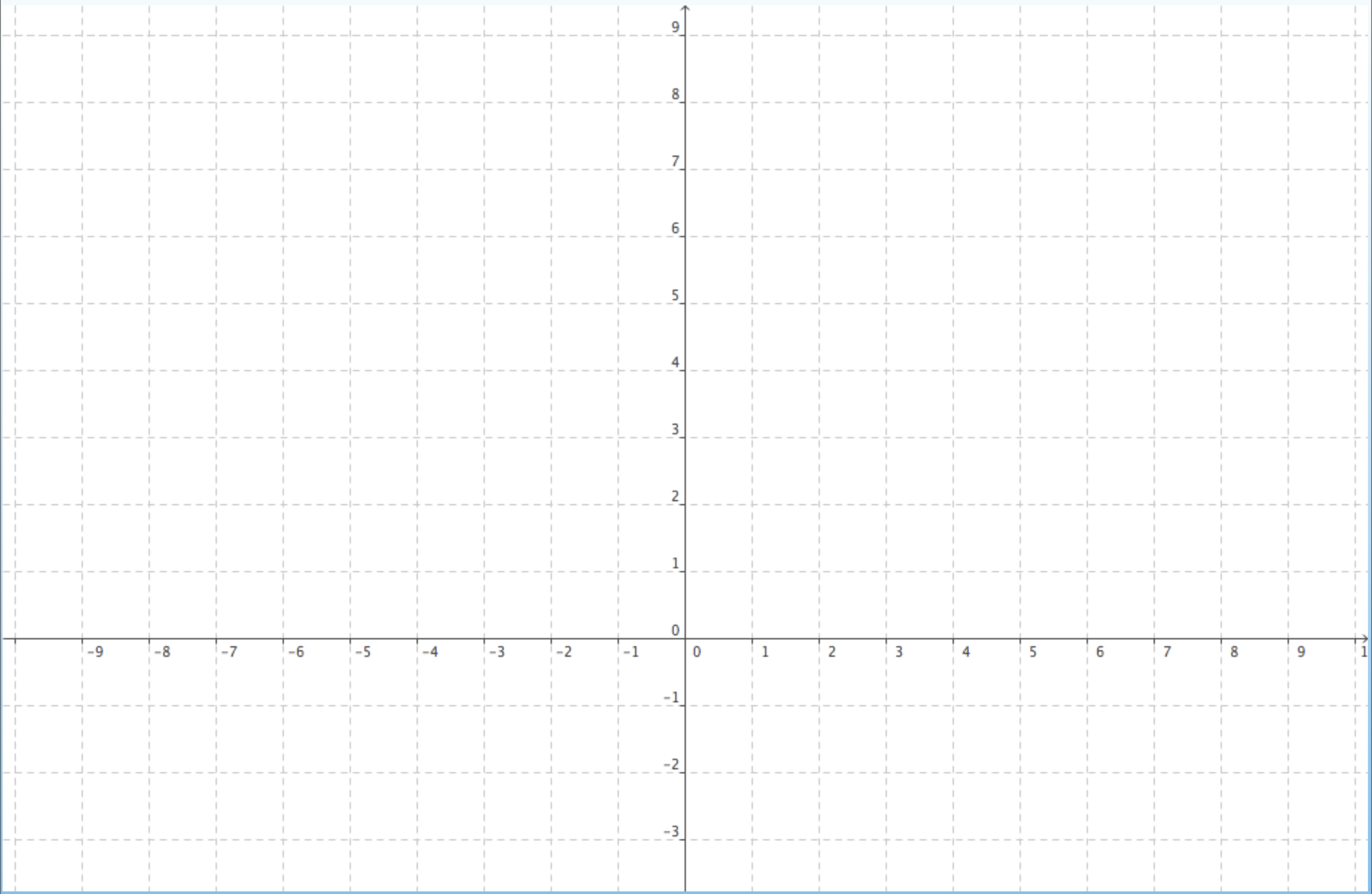
5. Parabolas

$$y = x^2 + 1$$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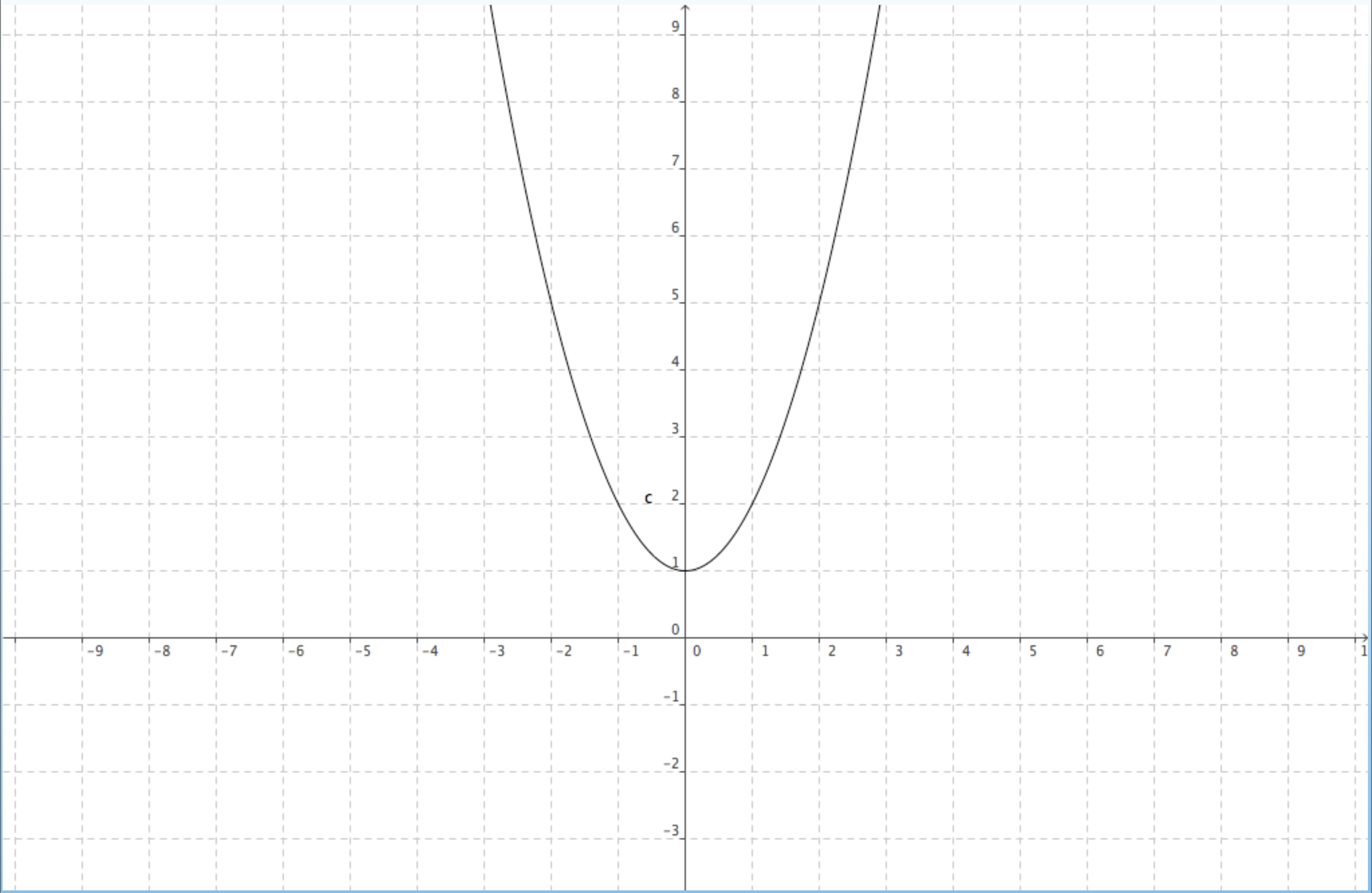
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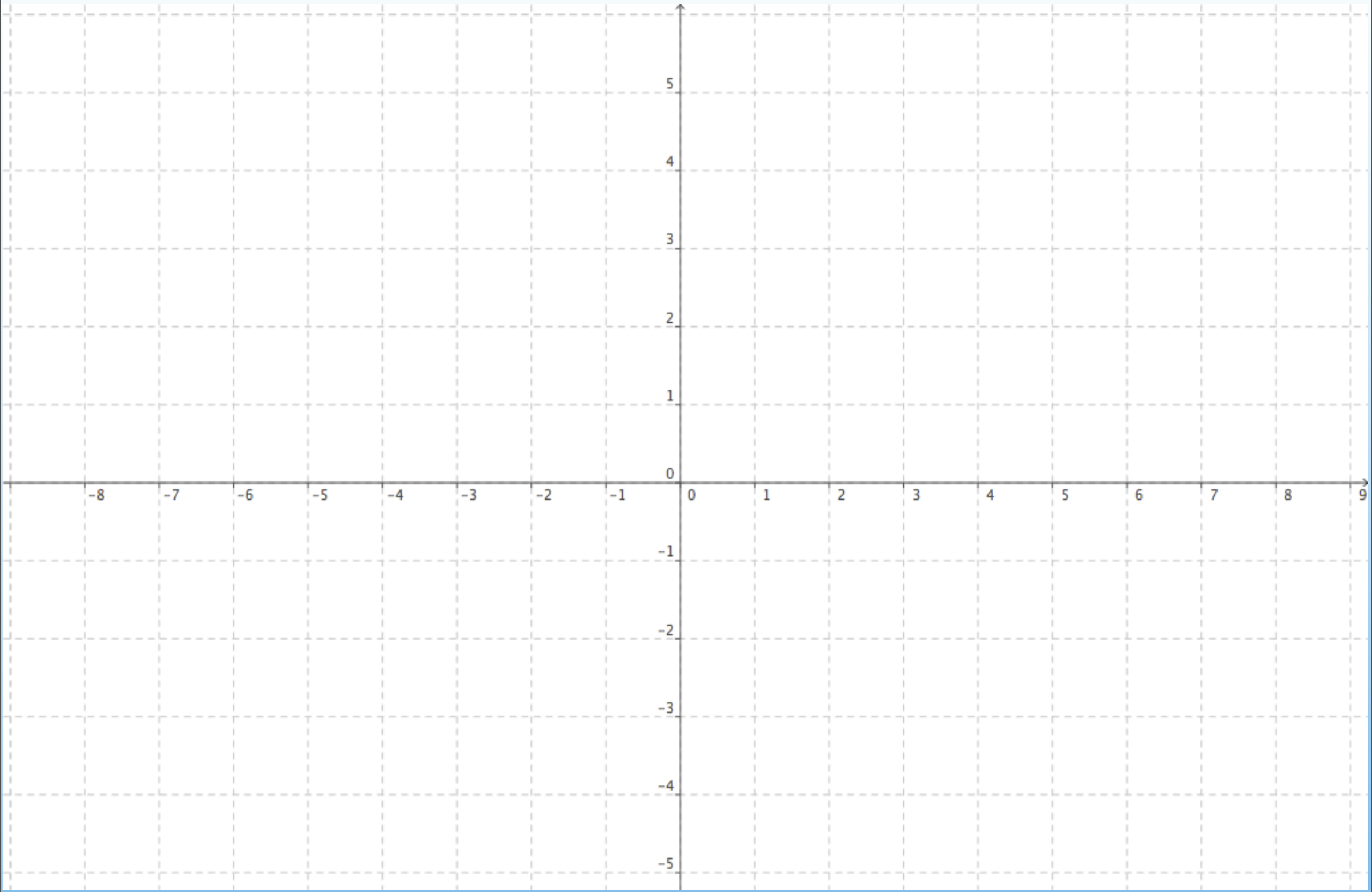
5. Parabolas

$$y = x^2 - 4$$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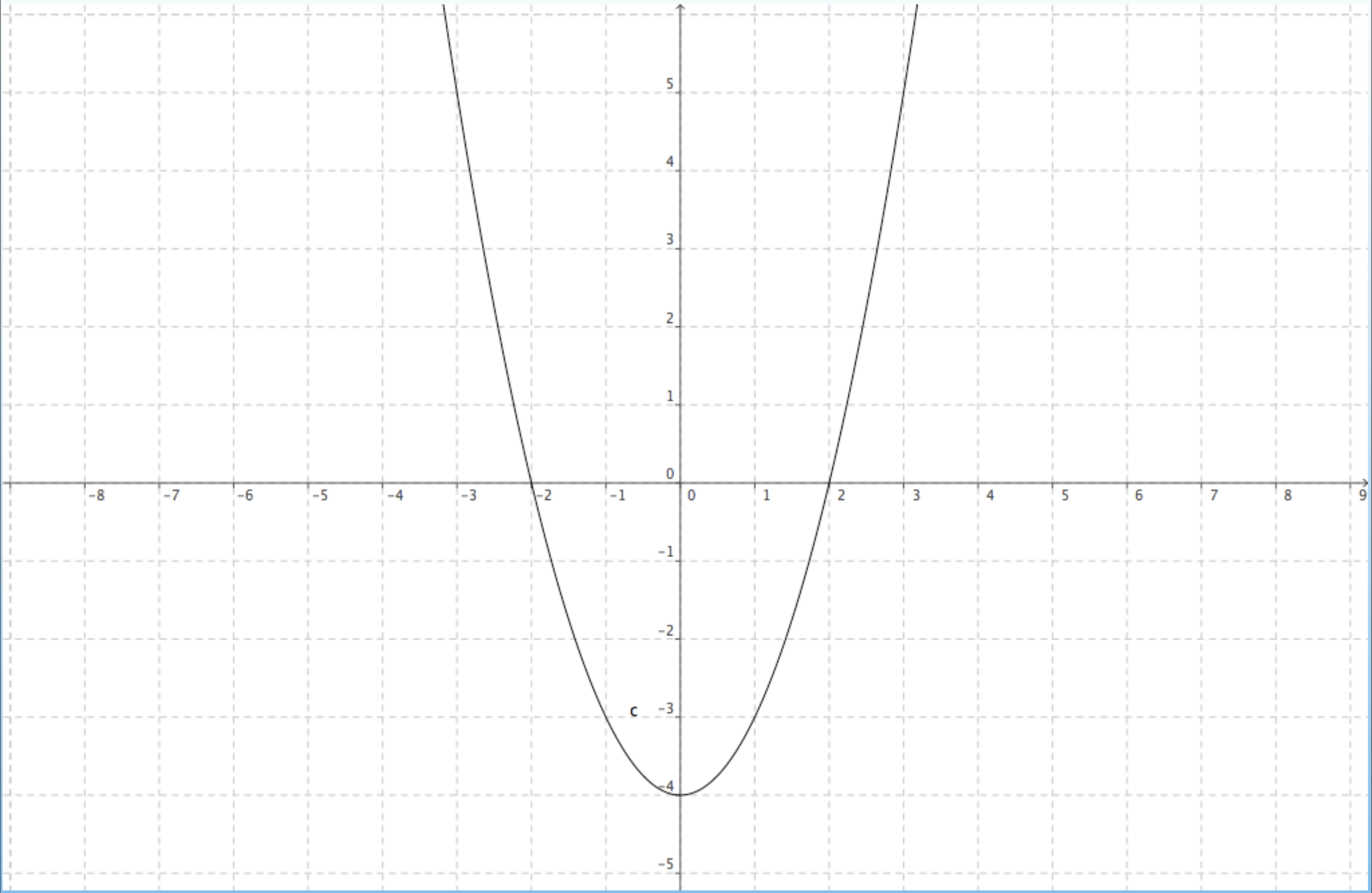
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9
c

6. Concept Quiz

7. Homework

Practice

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

Challenge

Day 65

1. Sub Day

Day 68

2. Super Fun Time Summer School Geometry Sing-A-Long Sign Up

Friday 3/6/9:

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	AVG
Fourth	**80**	90	**70**	43	**43**	60										**64**
Sixth	57	**100**	48	**57**	38	**65**										61

Friday 3/13/9:

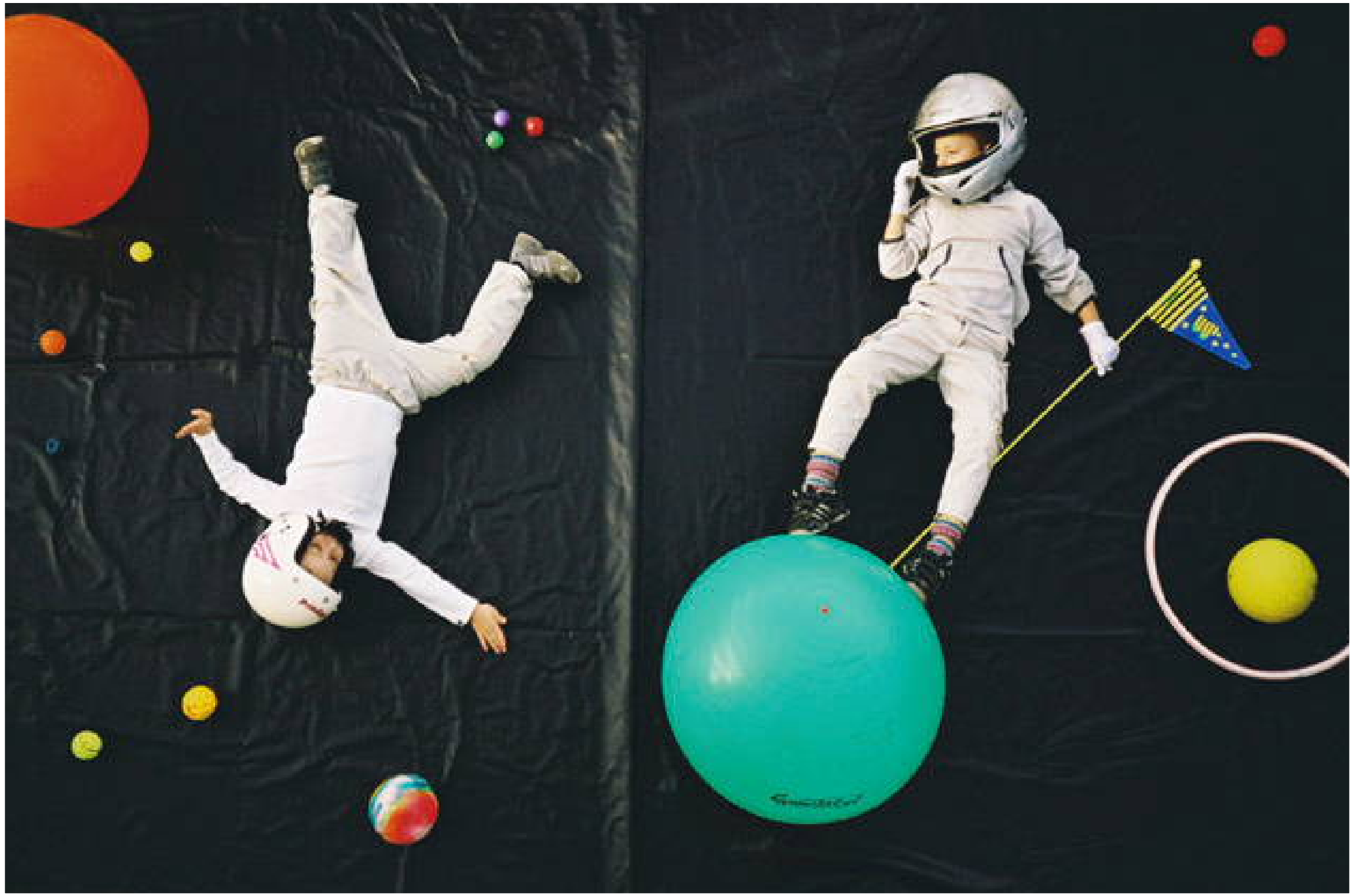
	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	AVG
Fourth	**80**	90	**70**	48	**76**	67	55									**69**
Sixth	57	**100**	48	**57**	52	**71**	**74**									66

Friday 3/6/9:

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	AVG
Fourth	**80**	90	**70**	43	**43**	60										**64**
Sixth	57	**100**	48	**57**	38	**65**										61

Friday 3/13/9:

	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	AVG
Fourth	**80**	90	**70**	48	**76**	67	55									**69**
Sixth	57	**100**	48	**57**	52	**71**	**74**									66



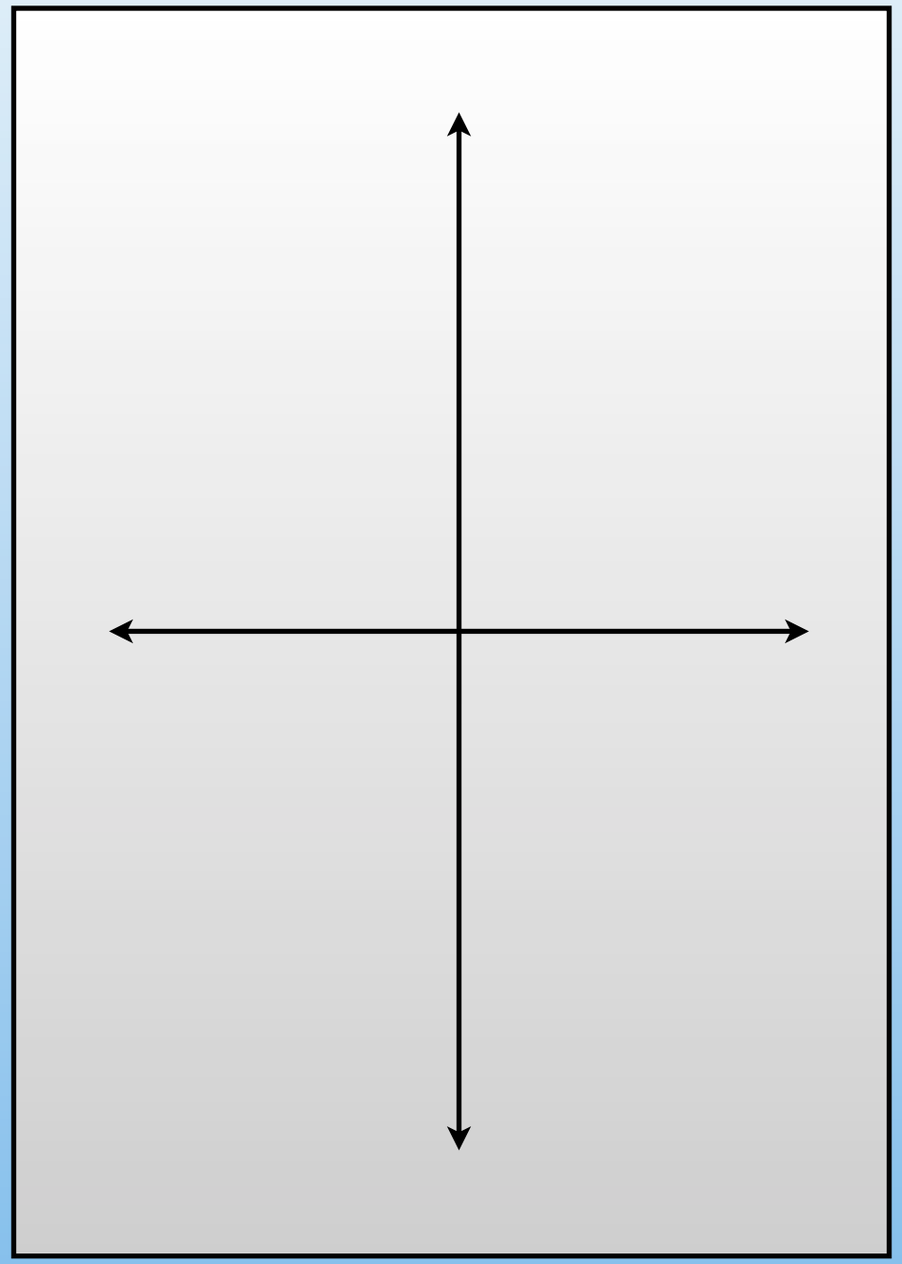

http://www.janvonholleben.com/dreams_of_flying.php?n=8

Day 68

3. Pass Back Tests

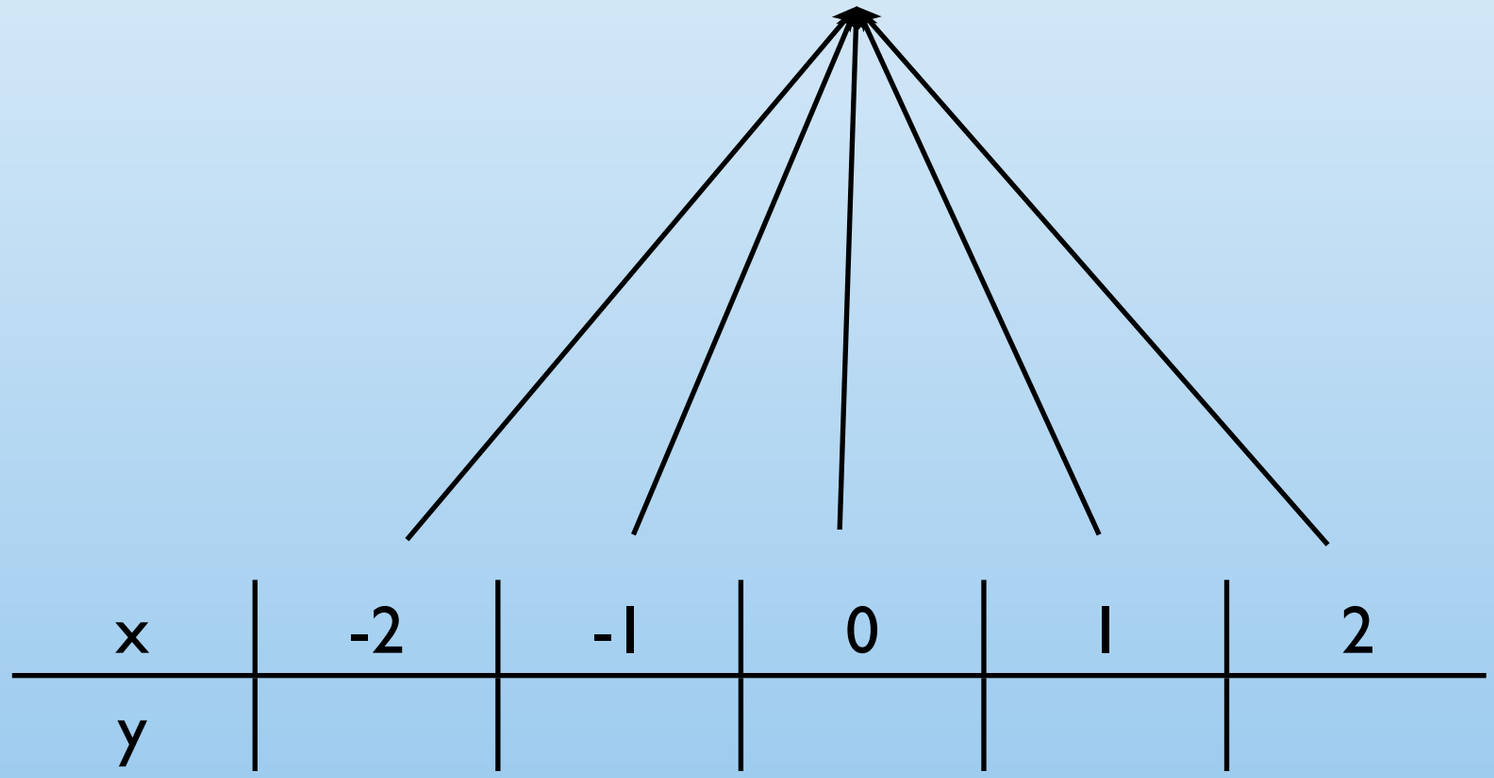
Day 68

4. Pass Out Graph Paper



$$y = -2x + 1$$

$$y = -2x + 1$$



y

x	-2	-1	0	1	2
y	5	3	1	-1	-3

y

x	-2	-1	0	1	2
y	5	3	1	-1	-3

y

x	-2	-1	0	1	2
y	5	3	1	-1	-3

y

x	-2	-1	0	1	2
y	5	3	1	-1	-3

y

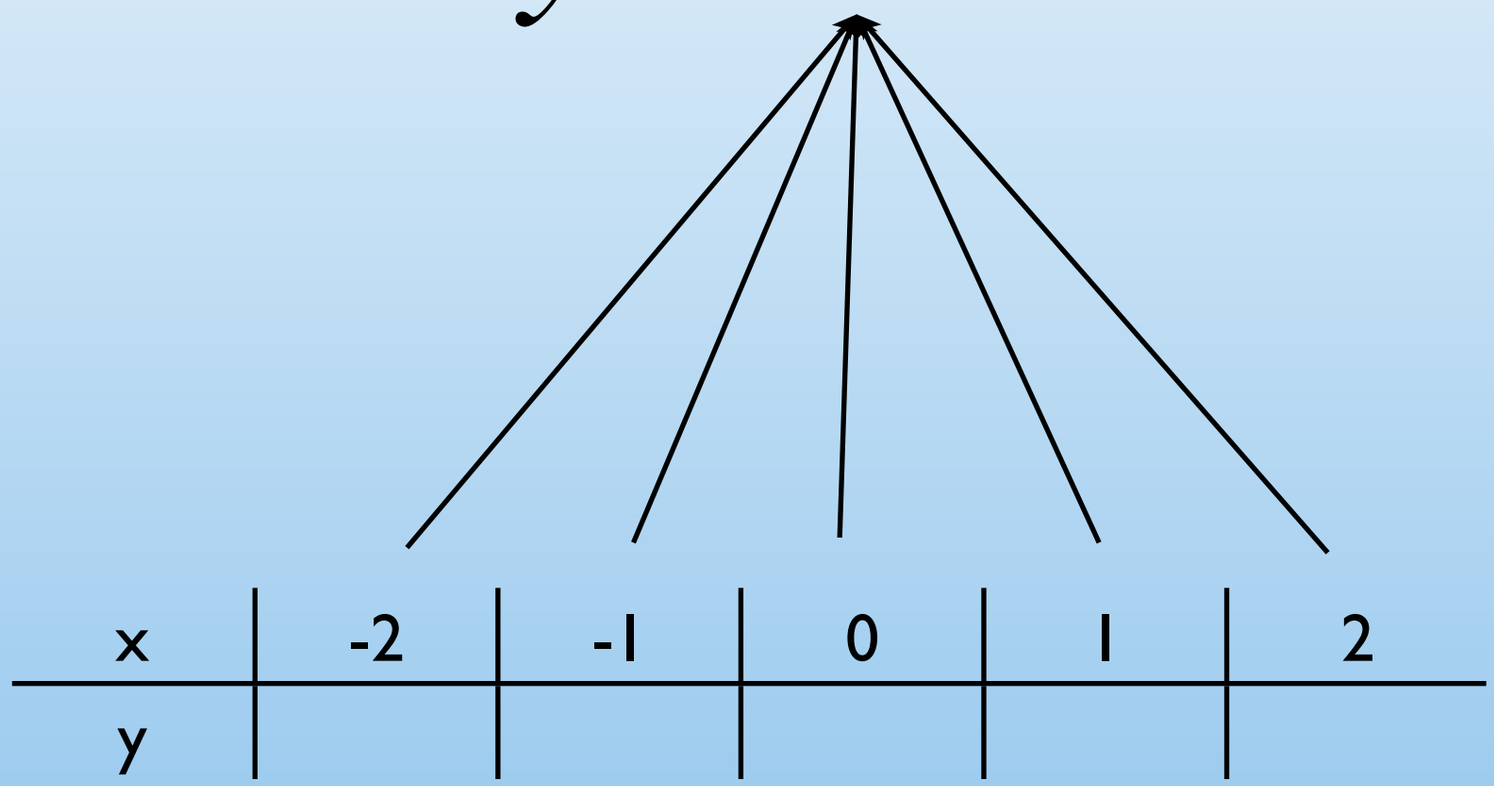
x	-2	-1	0	1	2
y	5	3	1	-1	-3

y

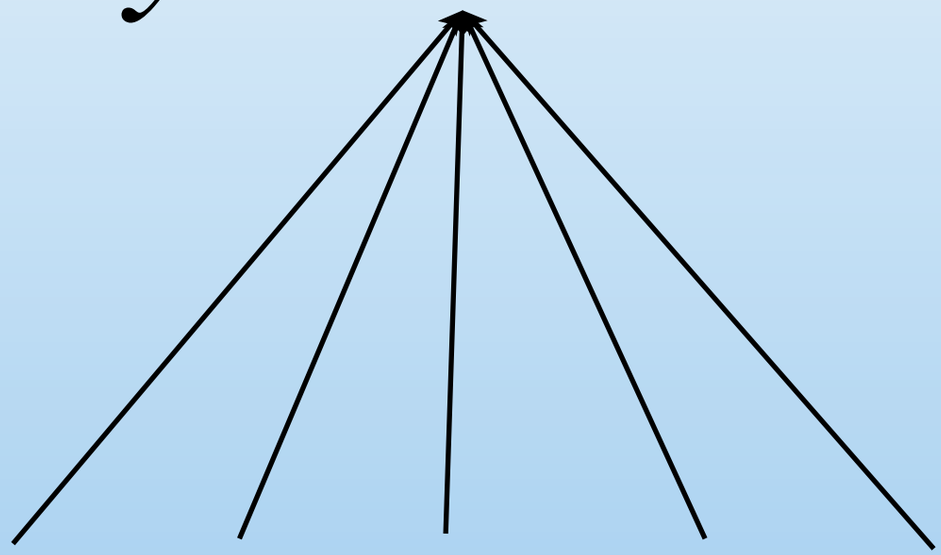
x	-2	-1	0	1	2
y	5	3	1	-1	-3

$$y = x^2$$

$$y = x^2$$



$$y = x^2$$



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

y

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

y

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

y

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

y

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

y

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

y

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

y

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

$$y = x^2 + 1$$

y

x	-2	-1	0	1	2
y	5	2	1	2	5

$$y = x^2 - 4$$

y

x	-2	-1	0	1	2
y	0	-3	-4	-3	0

$$y = x^2 + k$$

y

x	-2	-1	0	1	2
y	0	-3	-4	-3	0

vertex

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

$$y = 2x^2$$

$$y = -x^2$$

$$y = -2x^2 + 1$$

$$y = ax^2$$

5. Break

6. Show and Tell

7. Review Work

pg. 418 // #17 - 19, 26 - 28, 39 - 41, 50 - 52, 56 - 61
pg. 419 // #73 - 76