Algebra 1B FID Days

2024-2025 year will be on 8th snow day
Mostly in January after midterms so Chapter 4&5 graphing will have been completed
Use Algebra Keystone Practices related to graphing and application problems

Setup Day -

All students should

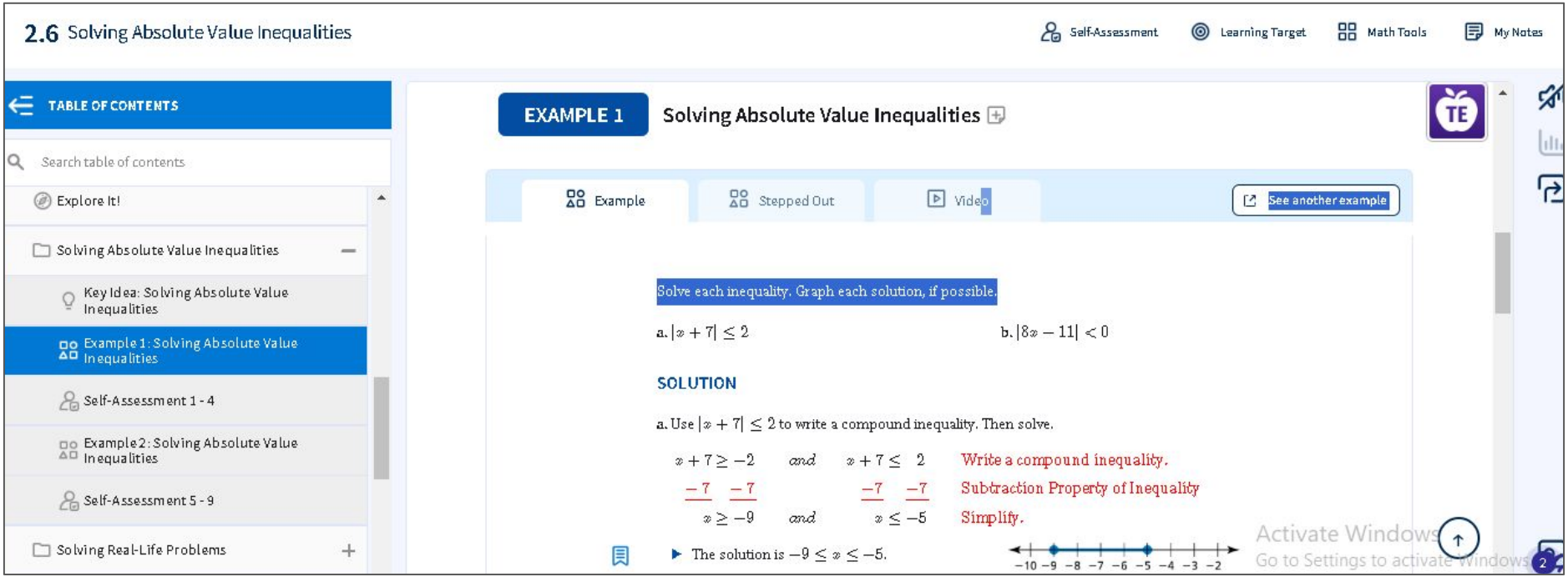
- TAKE/have their hard textbook home for backup as well as chromebook and graphing calculator as some STATS-EDIT/CALC - LinReg may be helpful.
- Complete the Google Form indicating available resources and needs for a FID day
- Receive a copy of this slideshow pdf for reference

DAY of a Flexible Instructional Day (FID) students will

- Check in with
    - Google Classroom Meet (GC) & answer the Question of the Day
    - or Email
    - or Call Mrs. Pletcher - ext 2112 to leave a message indicating status
- Complete Assignment posted in some fashion

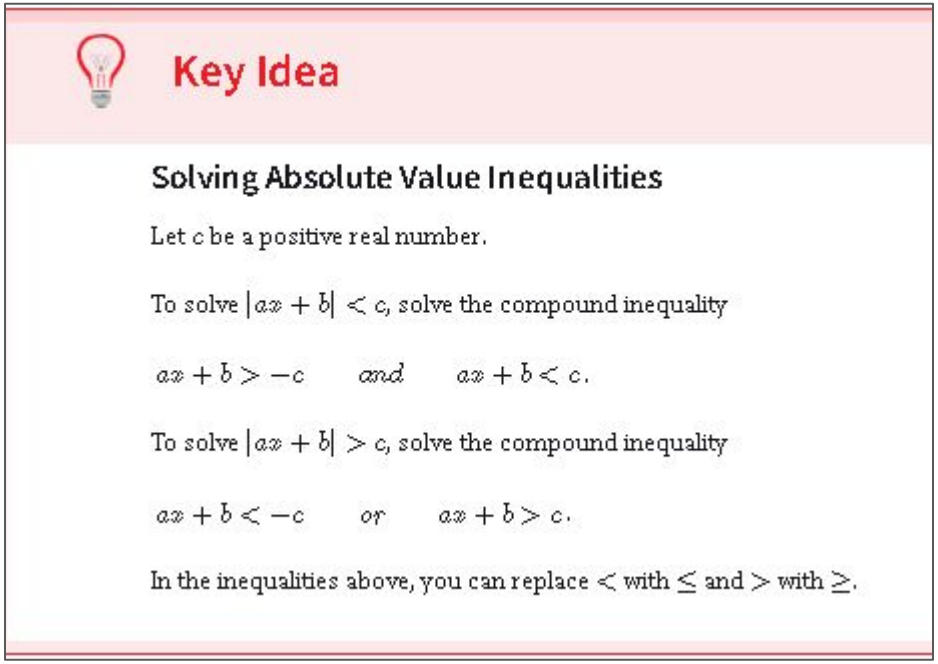
Review the location online www.bigideasmath.com of videos

This is screenshot of teacher's view but very similar to students once they access the dynamic classroom on their dashboard on the right hand side.



Day 1: Our Algebra bigideasmath.com section 2.6

Objective: Review Solving compound inequalities, including Absolute Value.



Key Idea

Solving Absolute Value Inequalities

Let c be a positive real number.

To solve $|ax + b| < c$, solve the compound inequality

$ax + b > -c$ *and* $ax + b < c$.

To solve $|ax + b| > c$, solve the compound inequality

$ax + b < -c$ *or* $ax + b > c$.

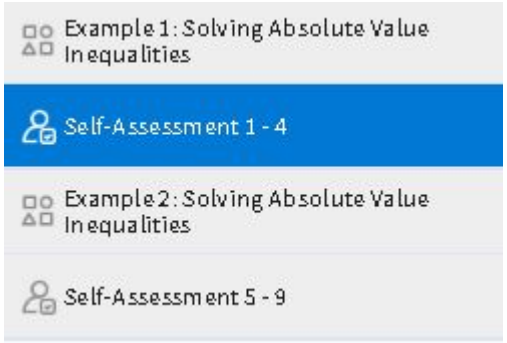
In the inequalities above, you can replace $<$ with $\leq$ and $>$ with $\geq$.

1) View the VIDEO for example 1 & 2

2) Complete the 2 self-assessment problems with work shown on PAPER to link to GC assignment for the day OR hand in upon return.

Backup: PG 95-97 in HARD textbook

2.6 Section table of contents has these tabs



- Have a PAPER to show notes you took from the videos and did on the problems in self-assessment. This does not need to be every line but should give the impression you did take notes on the examples.
- The videos are 2 and 4 minutes = 6 minutes of viewing but may take more time to pause and do notetaking.
- Then 9 problems to complete will be most likely at least 9 minutes.
- Therefore assignment is about 20 minutes.

Samples from studyisland Keystone content & Exit Ticket

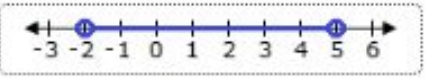
Directions: Drag the tiles to the boxes to form correct pairs.

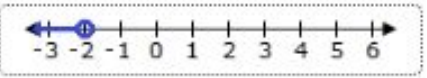
Solve the following compound inequalities. Then, match each compound inequality with the graph of its solutions on the number line.

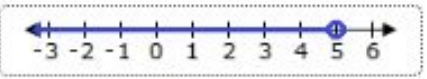
$8x - 3 < 13$ or $-3x + 11 > -4$

$2x + 3 < -7$ or $-3x - 1 > 5$

$-42 < 3x - 36 < -21$







Solve the following inequality.

$$-4|3 - x| + 4 \leq -16$$

- **A.** $x \geq 8$ or $x \leq -2$
- **B.** $x \leq 8$ or $x \geq -2$
- **C.** $x \geq 6$ or $x \leq 0$
- **D.** $x \leq 6$ or $x \geq 0$

Day 2: FID #1-5, 11-13, 17,18, 21,22

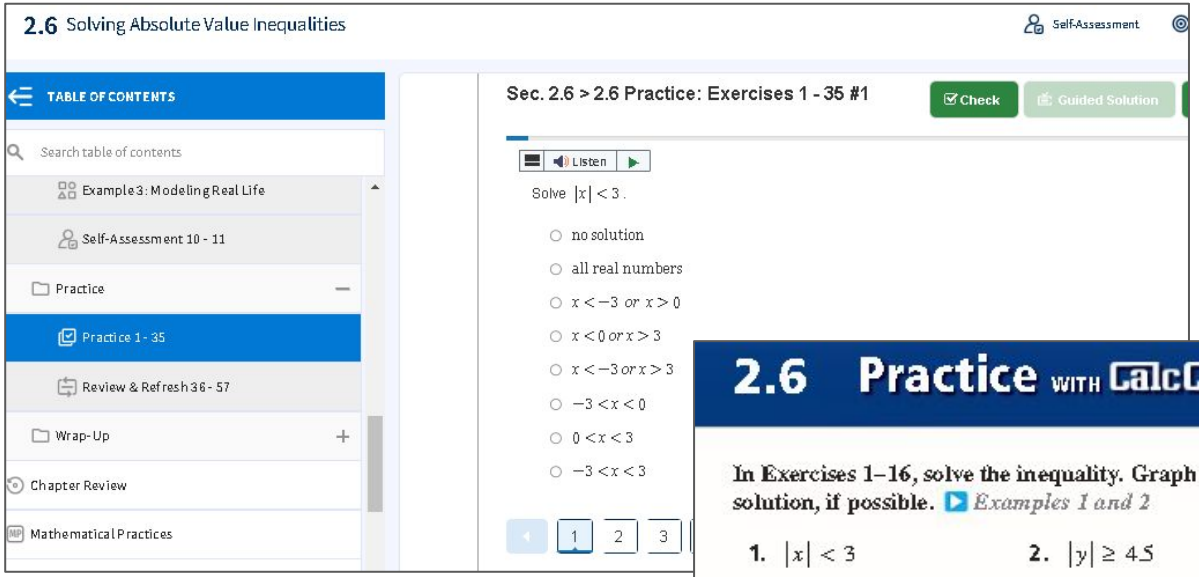
All need WORK paper in some fashion

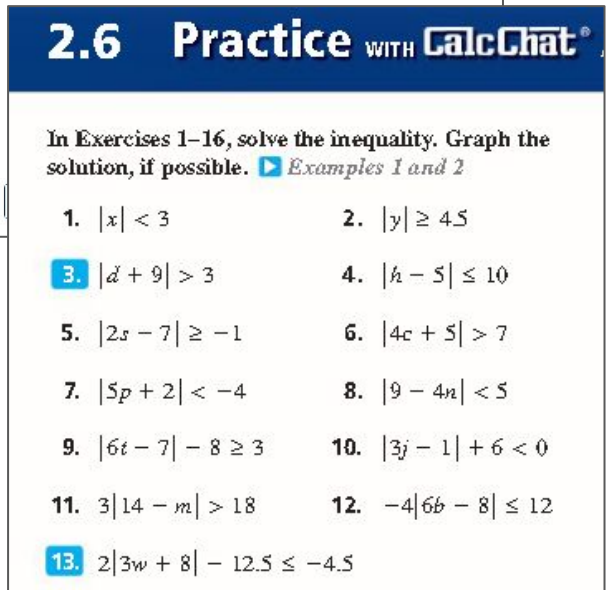
Online - use your checks, guided solution helps, etc.

- Dynamic Classroom Book
- Under section 2.6 Tabs
- **Practice** option
- Work shown on paper for #s

Hard text book - show your work and the back of the book has answers on some problems.

- Pg 99 # in title
- Show on paper





Day 3: FID

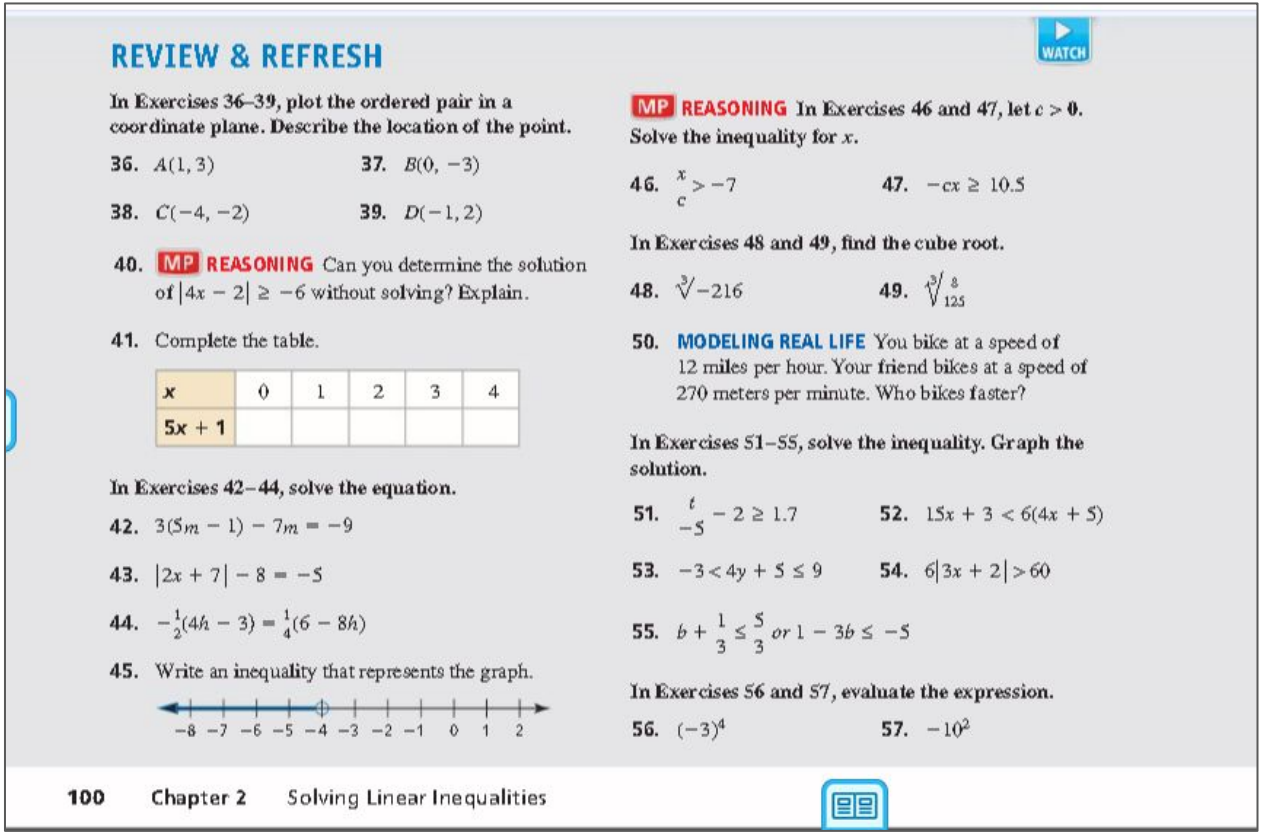
All need WORK paper

Online

- Dynamic Classroom Book
- Under section 2.6 Tabs
- Review & Refresh option
- Work shown on paper for # 42-44, 51-55

Hard text book

- Pg 100 # 36-57
- Show on paper



REVIEW & REFRESH

WATCH

In Exercises 36–39, plot the ordered pair in a coordinate plane. Describe the location of the point.

36. $A(1, 3)$ **37.** $B(0, -3)$

38. $C(-4, -2)$ **39.** $D(-1, 2)$

40. MP **REASONING** Can you determine the solution of $|4x - 2| \geq -6$ without solving? Explain.

41. Complete the table.

x	0	1	2	3	4
$5x + 1$					

In Exercises 42–44, solve the equation.

42. $3(5m - 1) - 7m = -9$

43. $|2x + 7| - 8 = -5$

44. $-\frac{1}{2}(4h - 3) = \frac{1}{4}(6 - 8h)$

45. Write an inequality that represents the graph.

MP **REASONING** **In Exercises 46 and 47, let $c > 0$. Solve the inequality for x.**

46. $\frac{x}{c} > -7$ **47.** $-cx \geq 10.5$

In Exercises 48 and 49, find the cube root.

48. $\sqrt[3]{-216}$ **49.** $\sqrt[3]{\frac{8}{125}}$

50. **MODELING REAL LIFE** You bike at a speed of 12 miles per hour. Your friend bikes at a speed of 270 meters per minute. Who bikes faster?

In Exercises 51–55, solve the inequality. Graph the solution.

51. $\frac{t}{-5} - 2 \geq 1.7$ **52.** $15x + 3 < 6(4x + 5)$

53. $-3 < 4y + 5 \leq 9$ **54.** $6|3x + 2| > 60$

55. $b + \frac{1}{3} \leq \frac{5}{3}$ *or* $1 - 3b \leq -5$

In Exercises 56 and 57, evaluate the expression.

56. $(-3)^4$ **57.** -10^2

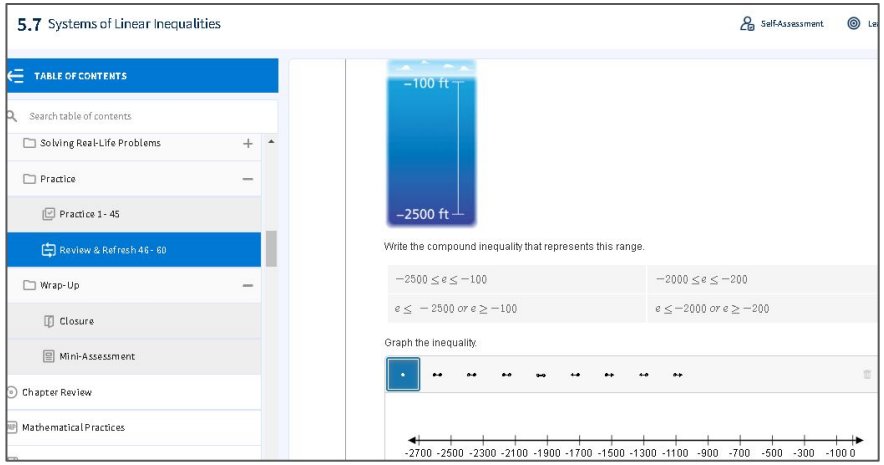
Day 4: FID Review after section 5.7

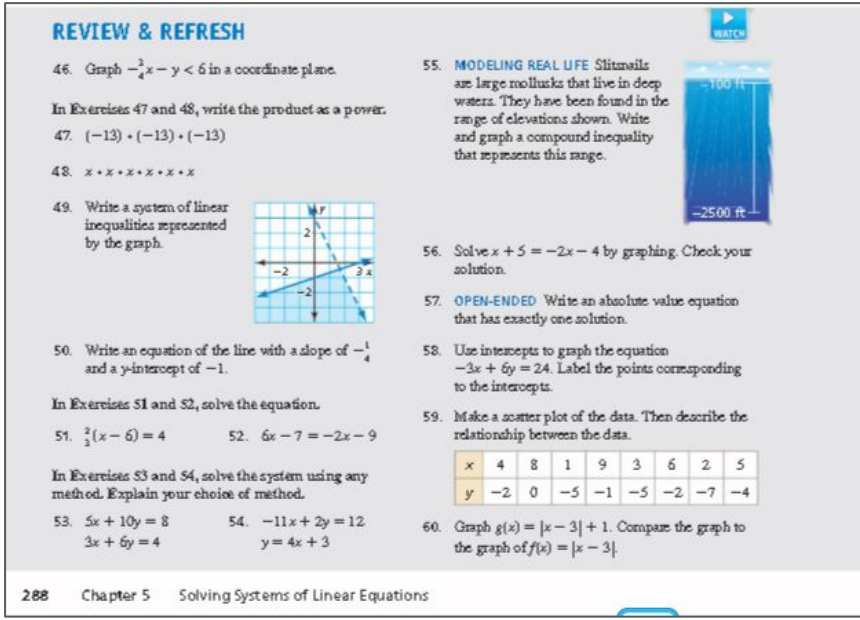
All need WORK paper

Online Dynamic Classroom Book----------Under section 5.7 Tabs

- Review & Refresh option as this has good problems to practice for online Keystone test
- Work shown on paper for # but rest can be placed into the online boxes as record

Hard text book option: Pg 288 # 46-60 Show on paper

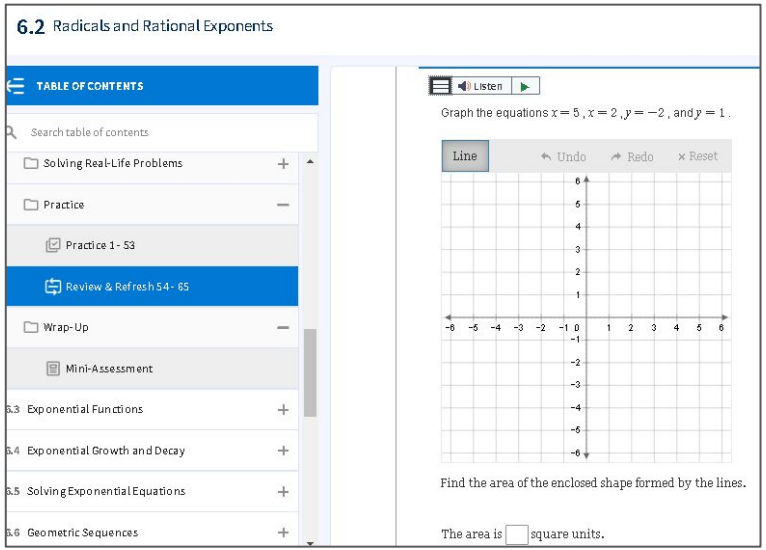
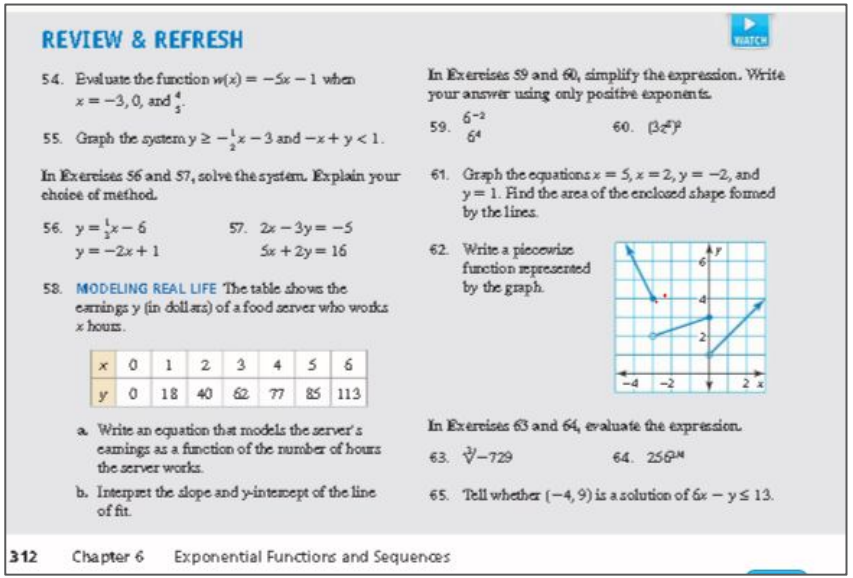




Day 5: FID Review after section 6.2 on exponents

All need WORK paper

Online Dynamic Classroom Book----------Under section 6.2 Tabs

- Review & Refresh option as this has good problems to practice for online Keystone test
- Work shown on paper for # 56,57 but rest can be placed into the online boxes as record

Hard text book option: Pg 312 # 54-65 Show on paper