Algebra 1B Live Lesson

U4L9: Unit 4 Review U4L1 to U4L5



Agenda



 Review selected problems and topics from Unit 4, Lessons 1 – 5. 2. Use the 2-column note system to take better notes in math class. Bring your math notebook and pen or pencil to each math LiveLesson class.

2-Column Notes Template



- 1. Announcements/To Do's
- 2. School-Wide Learner Outcomes
- 3. LL Objectives
- 4. Vocabulary words
- 5. Problems
- 6. Summary (End of class)

- 1. Write down important details.
- 2. What are you going to work on this week?

- 4. Definitions (fill in as we go)
- 5. Steps to solving problems
- 6. 1 or 2 sentences about the LL class.

Reminders and To – Do's



Information

1. Complete 1 math lesson per day.

- 2. Check your WebMail every day
- 3. Be prepared to spend 4 6 hours per day on schoolwork.
- 4. Remind your Learning Coach to take daily attendance

What to do

- 1. Go to your Planner in Connexus to find the math lesson for the day
- 2. Go to Connexus to find WebMail
- 3. Complete lessons for the day from your Planner. Do not get behind on lessons.
- 4. Have your Learning Coach log into Connexus daily.

Reminders and To – Do's



Information

- 5. Go to the Message Board first for information about our math class.
- 6. Contact Mr. Elizondo for math questions.

Remember: You need at least 2 phone calls with Mr. Elizondo per semester.

What to do

6. Call (559) 549 - 3244 and leave a voicemail if call is not answered.

Make an appointment at: https://elizondo.youcanbook.me

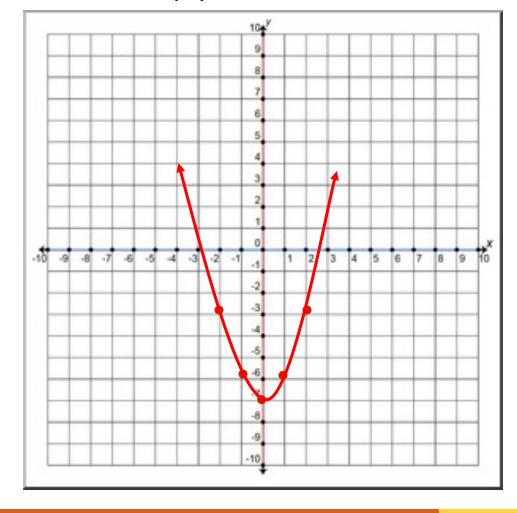
Send a WebMail





Graph the function: $f(x) = x^2 - 7$

Х	у
-2	-3
-1	-6
0	-7
1	-6
2	-3



U4L2 p. 544 #11



Find the equation of the axis of symmetry and the coordinates of the vertex of graph of the function: $f(x) = 3x^2 - 9x + 2$

equation for Axis of Symmetry: $x = \frac{-b}{2a}$

$$x = \frac{-(-9)}{2(3)}$$
 $x = \frac{9}{6} = \frac{3}{2}$ $\left(\frac{3}{2}, \dots\right)$

$$f(x) = 3x^{2} - 9x + 2$$

$$f(x) = 3\left(\frac{3}{2}\right)^{2} - 9\left(\frac{3}{2}\right) + 2$$

$$f(x) = 3\left(\frac{9}{4}\right) - \frac{27}{2} + 2$$

$$f(x) = \frac{27}{4} - \frac{27}{2} + 2$$

$$f(x) = \frac{27}{4} - \frac{54}{4} + \frac{8}{4}$$

$$f(x) = -\frac{19}{4}$$

$$\left(\frac{3}{2}, -\frac{19}{4}\right)$$

U4L3 p. 551 #29



Solve the equation by finding square roots:

$$2r^{2} - 32 = 0$$

$$2r^{2} - 32 = 0$$

$$2r^{2} - 32 + 32 = 0 + 32$$

$$2r^{2} = 32$$

$$2r^{2} = 32$$

$$r^2 = 16$$

$$\sqrt{r^2} = \sqrt{16}$$

$$r = \pm 4$$

$$r = 4 \text{ or } r = -4$$

U4L4 p. 558 #9



Use the Zero-Product Property to solve each equation:

$$(4k + 5)(k + 7) = 0$$

$$4k + 5 = 0$$

$$k + 7 = 0$$

$$4k+5-5=0-5$$
 $k=-7$

$$k = -7$$

$$4k = -5$$

$$k=-\frac{5}{4}$$

U4L4 p. 558 #17



Solve by factoring: $2z^2 - 21z - 36 = 0$

$$a*c = 2*-36 = -72$$

$$a*c = 2*-36 = -72$$
 $1*-72$, $2*-36$, $3*-24$ $3z$, $-24z$

$$2z^2 + -36 = 0$$

$$2z + 3 = 0$$

$$z - 12 = 0$$

$$2z^2 + -24z + 3z - 36 = 0$$

$$2z + 3 - 3 = 0 - 3$$

$$z = 12$$

$$(2z^2 + -24z) + (3z - 36) = 0$$

$$2z(z-12) + 3(z-12) = 0$$

$$(2z+3)(z-12)=0$$

$$2z = -3$$

$$z=-rac{3}{2}$$

U4L5 p. 564 #15



Solve the equation by Completing the Square:

$$m^2 + 16m = -59$$

$$\frac{16}{2} = 8 \qquad 8^2 = 64$$

$$m^2 + 16m + 64 = -59 + 64$$

$$(m+8)^2 = 5$$

$$\sqrt{(m+8)^2} = \sqrt{5}$$

$$m + 8 = \pm \sqrt{5}$$

$$m + 8 - 8 = -8 \pm \sqrt{5}$$

$$m=-8+\sqrt{5}$$
 or $m=-8-\sqrt{5}$

Questions?



- Check the Message Board first
- Send a WebMail
- You can also make an appointment at https://elizondo.youcanbook.me
- You can also call me at (559) 549-3244. If I'm not available to answer your call, please leave a voicemail with your full name and phone number.