Algebra 1B Live Lesson

U3L9: Polynomials and Factoring Unit Review



Agenda



1. Review selected problems and topics to help complete the Unit 3 Sample Work and study for the Unit 3 Test.

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



Factor the expression.
$$6x^2 - 23x + 20$$

$$a*c = 6*20$$

$$a*c = 120$$

$$6x^2 - 23x + 20$$

$$6x^2 + _ + _ + 20$$

$$6x^2 + -15x + -8x + 20$$

$$3x(2x-5) - 4(2x-5)$$

$$(3x - 4)(2x - 5)$$



Factor the expression.
$$27x^2 + 90x + 75$$
 $a*c = 9*25$
 $a b c$ $a*c = 225$
 $3(9x^2 + 30x + 25)$ $15x, 15x$ $3*75$
 $3(9x^2 + ___ + ___ + 25)$ $5*45$
 $9*25$
 $3(9x^2 + 15x + 15x + 25)$ $15*15$
 $3(3x + 5) + 5(3x + 5)$]



Factor the expression.
$$8v^2 + 34v - 30$$

$$2(4v^2 + 17v - 15)$$

$$2(4v^2 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} - 15)$$

$$2(4v^2 + 20v + -3v - 15)$$

$$2[4v(v + 5) + -3(v + 5)]$$

$$2(4v - 3)(v + 5)$$

$$a*c = 4*-15$$

$$a*c = -60$$

20v, -3v



Factor the expression.

$$\frac{a}{3}d^2 + 23d + 14$$

$$a*c = 3*14$$

a*c = 42

$$3d^2 + \underline{\hspace{1cm}} + \underline{\hspace{1cm}} + 14$$

$$3d^2 + 21d + 2d + 14$$

$$3d(d + 7) + 2(d + 7)$$

$$(3d + 2)(d + 7)$$



Factor the expression. $r^2 + 19rs + 90s^2$



1*90 2*45

3*30

3 3U

6*15

9*10

$$(r + 10s)(r + 9s)$$

$$r^2 + 19rs + 90s^2$$





Factor the expression. $n^2 - 3n - 10$

1*-10 -1*10 2*-5 -2*5

$$n^2 - 3n - 10$$





Simplify the product.
$$(p^4 - 9q^2)^2$$

 $(p^4 - 9q^2) (p^4 - 9q^2)$
 $p^8 - 9p^4q^2$
 $+ 9p^4q^2 + 81p^4$
 $p^8 - 18p^4q^2 + 81p^4$



Simplify the product.
$$(g-7h)^2$$

 $(g-7h)(g-7h)$
 $g^2 - 7gh$
 $-7gh + 49h^2$
 $g^2 - 14gh + 49h^2$

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.