



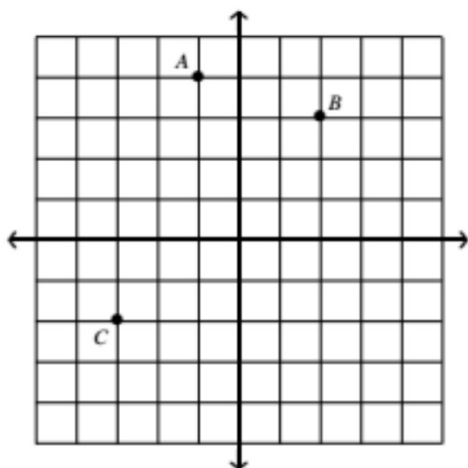
Do NOW

Calculators



25. (3 points)

Using the graph given, draw the line $y = 1$. Then plot the images of each point by reflection in the line $y = 1$ and label the points as A' , B' , and C' , respectively. Provide the coordinates of A' , B' , and C'



1. Is $3bc$ the same as $3cb$?



2. $4x^2 - 4zxy - 16$
Identify a , b , and c

Check In

Perfection

☆☆☆ 9



6 is a very special number.

The factors of **6** are **1**, **2**, **3** and **6**.

If we add the factors other than **6** we get **1+2+3=6**.

Can you find another perfect number?

Okay okay...RELAX

1) Factoring with GCF

2) Factoring $a=1$

3) Difference of Square

When the lecturer asks if you have any questions but you sit there in silence because you don't even know what you don't even know.



Factor w/ GCF

<https://www.youtube.com/watch?v=3RJIPvX-3vg>

$$6x^2p^4 - 3xp^2 + 12x^3p^2$$



Factoring when a=1 / Difference of Squares

$$x^2+7x+12$$

$$x^2-25$$

$$x^2-1$$

$$p^2-5x+6$$

$$x^2+4$$



Let's recap...

1. Always look for the GCF first (if there is one, factor it out!).
2. If there is no GCF and $a=1$, check to see if it is a difference of square (if it is, then diff. of squares!).
3. If it is not a difference of square and $a=1$, then use the Diamond method to factor.

LET'S RECAP...



What if a does not equal 1???



Grouping

STEPS

Example

| | |
|--|--|
| | |
|--|--|

Grouping

1. Check to see if there is a GCF.
If so, factor it out first.
2. IF there is no GCF, move the "a" term and multiply to "c".
3. Factor as usual ($a=1$).
4. Divide the second terms by "a"
5. Simplify the fraction if you can.
6. Move the leftover denominator in front the x.

$$2x^2 - 13x + 20$$

$$4y^2+4y-15$$

$$6x^2+x-2$$

$$6x^2-4x-16$$

$$-7x^2-24x-9$$

$$-3x^2 + 17x - 20$$

$$6x^2 - 13x + 6$$

$$35k^2 + 100k - 15$$

$$8x^2 - 18x - 5$$



INDEPENDENT PRACTICE



Scavenger Hunt!

- **Follow all directions and instructions.**
- **You are expected to finish in 30 minutes.**
- **If you finish, let me check. You will receive extra credit (Exit Ticket +5).**