Neamani, Simpson

Teacher's Name: Ms. Gasser

Algebra 1, ___c__ Band

Algebra 1, Quarter 3 Benchmark: Make Your Own Design!

<u>Introduction</u>: For this project I will be graphing linear equation and stating the equation to the lines

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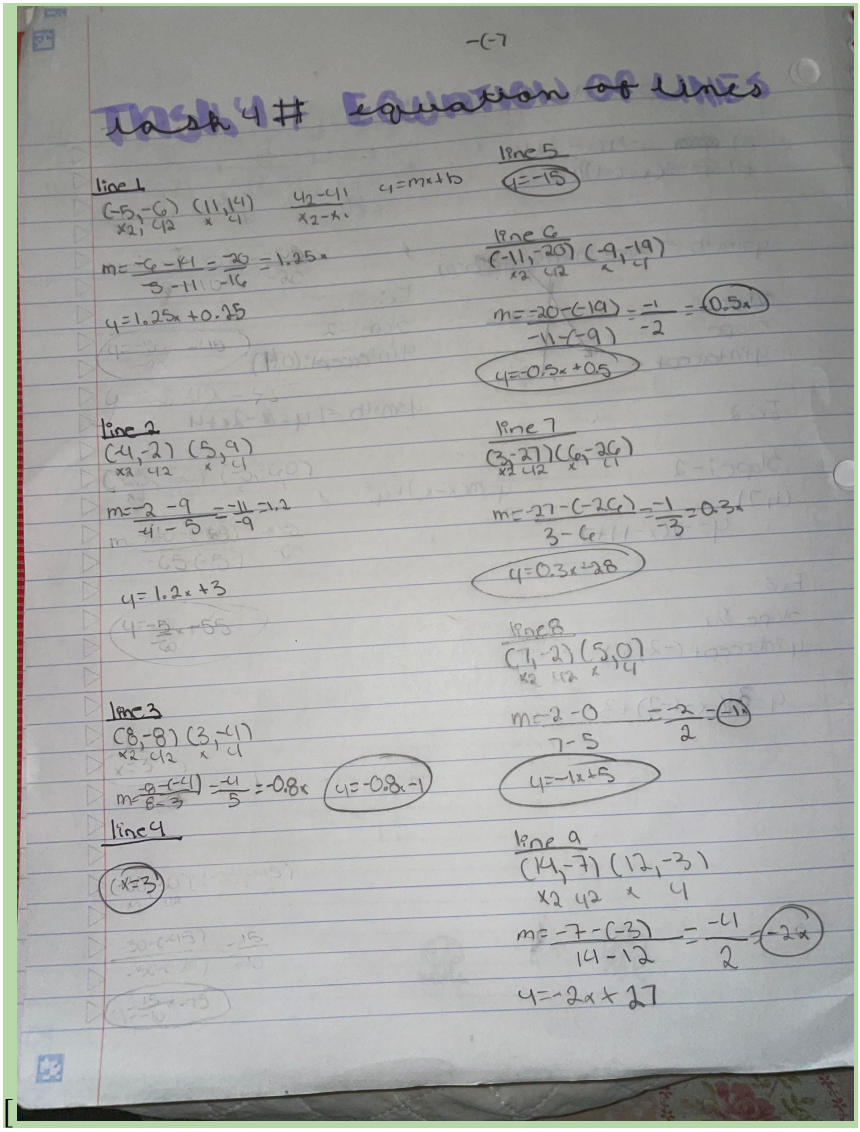

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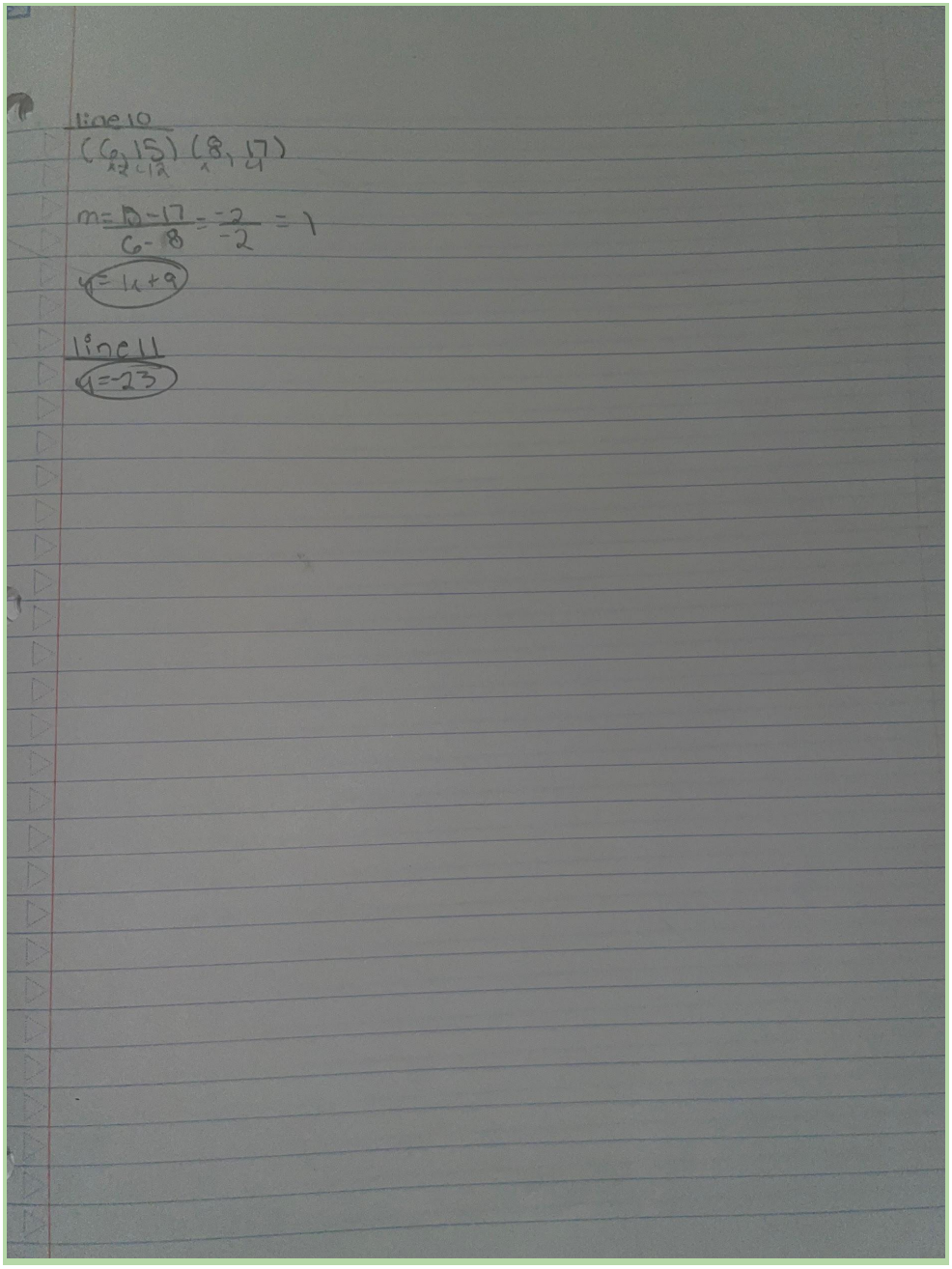

Finding Equations of Lines

1. **Slope-intercept form**

   To graphing an equation in slope-intercept form on a coordinate plane you would find where the line goes through the y axis and when you see the point you will do rise/ run

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2. **Point-slope form**

   [if a line graph is shown and you want to get its equation. You should first find its slope as a sample . the slope is then multiplied through and added to both sides]

   [Explain the process for graphing an equation in point-slope form on a coordinate plane]

3. **Horizontal lines**

   [to find a horizontal line equation you look where the line crosses the y axis and then you would just put y = ? whatever it is (number wise) for graphing the horizontal line you look where the line crosses the y axis

4. **Vertical lines**

   For vertical line you really dont do nothin you just find y or x but for vertical you're always find x no matter what]

   For graphing a vertical line you will just be looking where the line crosses the x axis and that would be your answer x = ?

5. **Parallel lines**

   The relationship between them is that they are always equal no matter what

6. **Perpendicular lines**

   the relationship between the slope and y-intercept of perpendicular lines is that tey are the same equation but the number are just mixed up in some type of way

Next is....

Equations of lines

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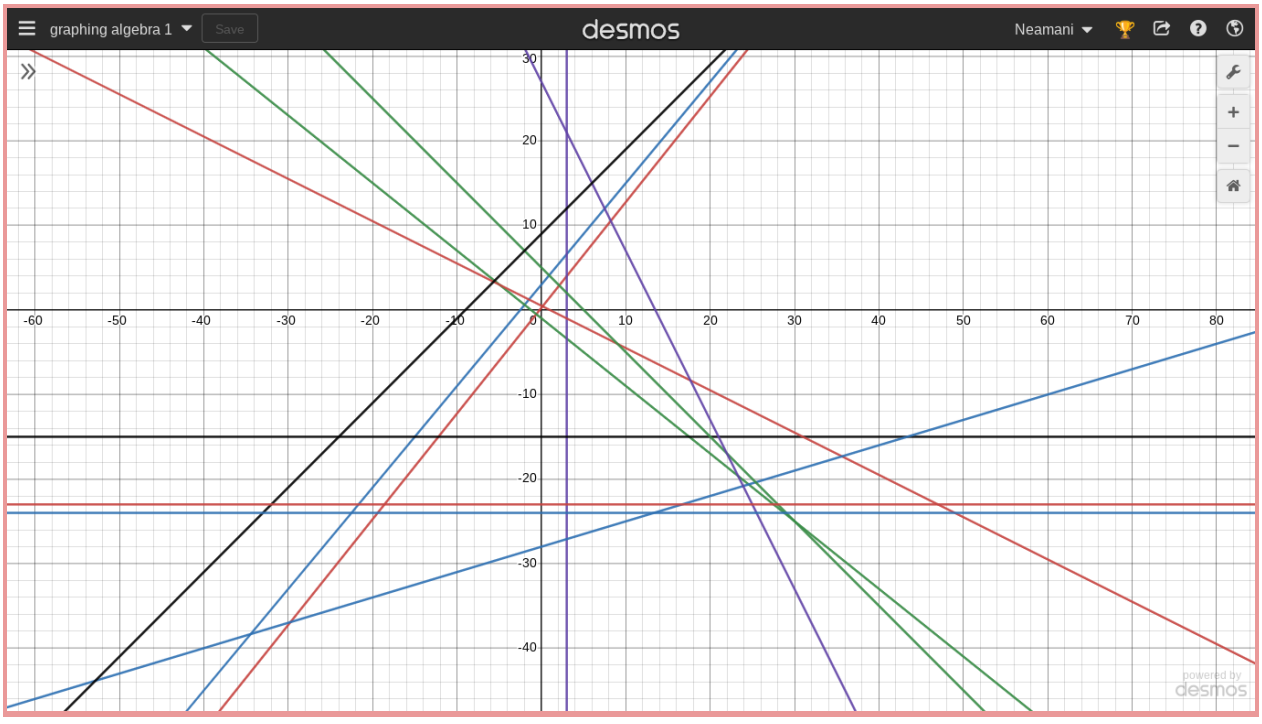
y=1.25x+0.25
y= 1.2x+3
y=-0.8x-1
y=-0.5x+0.5
y=0.3x-28
y=-1x+5
y=-2x+27
y=1x+9

[y=-15
y=-23]

[x=3]

Next is ...



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Algebra 1, ___c__ Band
Reflection

Something that I did good throughout this whole process of my benchmark is the graphing part. I improve on this process by staying on top of all my stuff and having a good attitude throughout the process. Something else that I learned is to have a LOT of patience with is benchmark.