*Graphing Table of Values*

Name: Div.: Date:

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| ***x*** | ***x =*** | ***y*** |
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1)

Ordered Pairs

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| ***x*** | ***x – 1 =*** | ***y*** |
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| ***x*** | ***x + 4 =*** | ***y*** |
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What changed about each equation? How did it change the line you graphed?

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| ***x*** | $\frac{x}{2}$ ***=*** | ***y***Ordered Pairs |
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| ***x*** | ***x =*** | ***y*** |
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| ***x*** | ***2x =*** | ***y*** |
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6)

What changed about each equation? How did it change the line you graphed?

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| ***x*** | $\frac{x}{2}$– ***1 =*** | ***y*** |
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7)

Ordered Pairs

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| ***x*** | $\frac{x}{3}$ ***+ 1 =*** | ***y*** |
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9)

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| ***x*** | $\frac{x}{4} $***+ 2 =*** | ***y*** |
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Did both of your previous patterns still apply? If so, can you create a rule for how the lines change based on the equation mx + b = y?

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| ***x*** | –***2x + 3 =*** | ***y*** |
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10)

Ordered Pairs

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| ***x*** | –***3x + 5 =*** | ***y*** |
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| ***x*** | $-\frac{x}{2}$ ***+ 4 =*** | ***y*** |
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| ***x*** | $-\frac{x}{3}$ ***+ 1 =*** | ***y*** |
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13)

Ordered Pairs

What happened to your lines when your coefficients became negative? What rule can you add to mx + b= y equations?

Attempt to write the equation, and draw the line given the pattern in the table of values.

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| --- | --- | --- |
| ***x*** |  | ***y*** |
| 0 |  | 3 |
| 2 |  | 4 |
| 4 |  | 5 |

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| ***x*** |  | ***y*** |
| 0 |  | 6 |
| 3 |  | 5 |
| 6 |  | 4 |