Writing Linear Equations

y = mx + b

Write the slope-intercept form of the equation of each line given the graph:





Find the slope and y-intercept from each table, and then write an equation:

m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_

equation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| X | Y |
| 4 | 19 |
| 6 | 27 |
| 8 | 35 |
| 10 | 43 |

m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

equation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| X | Y |
| 1 | -2 |
| 2 | 1 |
| 3 | 4 |
| 4 | 7 |

m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

equation:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | 2 | 4 | 6 | 8 | 10 |
| Y | -1 | 0 | 1 | 2 | 3 |

|  |  |
| --- | --- |
| Coordinate point: (-7,5) , slope = - 2  | (-4,-4) , m = -1  |
| y-intercept = - 2 , slope = 4 | m = -5 , b = 7  |

Write an equation of the line in slope-intercept form using the given information: