|  |  |
| --- | --- |
| http://philschatz.com/precalculus-book/resources/CNX_Precalc_Figure_02_02_010.jpg* Calculate the slope (a)
* Identify the y-intercept b from the graph
* Write in form y = ax +b
 | Example:a = $\frac{y2-y1}{x2-x1}$ = $\frac{rise}{run}$ = $\frac{4}{2}$ = 2b = 4 y = ax +b**Equation is y = 2x +4** |
| Find the equation of a line passing through the points (2, 3) and (6, 4)* Calculate the slope (a)
* Identify the y-intercept b using b = y - ax
* Write in form y = ax +b
 | **Example:**a = $\frac{y2-y1}{x2-x1}$ = $\frac{4-3}{6-2}$ = $\frac{1}{4}$ = 0.25b = y – axb = 4 – (0.25)(6)b = 4 – 1.5b = 2.5**Equation is y = 0.25x + 2.5** |
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|  |  |
| --- | --- |
|  x | y |
| 0 | 70 |
| 1 | 90 |
| 2 | 110 |
| 3 | 130 |

* Calculate the slope (a)
* Identify the y-intercept b using b = y - ax
* Write in form y = ax +b
 | **Example:**a = $\frac{y2-y1}{x2-x1}$ = $\frac{110-90}{2-1}$ = $\frac{20}{1}$ = 20**b = y – ax****b = 90 – 20(1)****b = 90 – 20****b = 70****Equation is y = 20x +70** |

Graph

Coordinates

Table of Values