|  |  |
| --- | --- |
| [http://philschatz.com/precalculus-book/resources/CNX_Precalc_Figure_02_02_010.jpg](http://www.google.ca/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwizsoekr7HJAhXCVj4KHbl0A8wQjRwIBw&url=http://philschatz.com/precalculus-book/contents/m50389.html&psig=AFQjCNHWNtQ90ZA8k5TOReW3y42LrXJzlg&ust=1448740005613630)   * Calculate the slope (a) * Identify the y-intercept b from the graph * Write in form y = ax +b | Example:  a = = = = 2  b = 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 = = = = 0.25  b = y – ax  b = 4 – (0.25)(6)  b = 4 – 1.5  b = 2.5  **Equation is y = 0.25x + 2.5** |
| |  |  | | --- | --- | | 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 = = = = 20  **b = y – ax**  **b = 90 – 20(1)**  **b = 90 – 20**  **b = 70**  **Equation is y = 20x +70** |

Graph

Coordinates

Table of Values