|  |  |
| --- | --- |
| **Fill in the Blanks** | **Finding the Equation of a Line Through Two Points** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| $$\left(x\_{1},y\_{1}\right)$$ | $$\left(x\_{2},y\_{2}\right)$$ | **Find** $m$ **using** $\frac{y\_{2}-y\_{1}}{x\_{2}-x\_{1}}$ | **Gradient** $m$ | **Find** $c$ **using** $y=mx+c$ | **Equation of Line** |
| $$(1, 3)$$ | $$(2, 5)$$ | $$\frac{5-3}{2-1}=\frac{2}{1}$$ | $$2$$ | $$3=2×1+c$$$$c=1$$ | $$y=2x+1$$ |
| $$(2, 0)$$ | $$(5, 9)$$ |  |  |  |  |
| $$\left(4, 1\right)$$ | $$(5, 6)$$ |  |  |  |  |
| $$(7, 11)$$ | $$(8, 10)$$ |  |  |  |  |
| $$(2, -3)$$ | $$(5, 3)$$ |  |  |  |  |
| $$(3, -2)$$ | $$(1, 8)$$ |  |  |  |  |
| $$(-6, -1)$$ | $$(-2, 1)$$ |  |  |  |  |
| $$(9, 7)$$ | $$(3, 9)$$ |  |  |  |  |
| $$\left(\frac{1}{2}, -3\right)$$ | $$\left(-\frac{1}{2}, -\frac{5}{2}\right)$$ |  |  |  |  |