...Part II: Slopes and Intercepts of Straight Lines

| Find the slope of the line containing the points: <br> 1. $P 1(3,1) \& P 2(1,3)$ $\begin{aligned} & m=\left(y_{2}-y_{1} / x_{2}-x_{1}\right) \\ & m=(3-1) /(1-3) \\ & m=2 /-2 \\ & m=-1 \end{aligned}$ | Find the slope of the line containing the points: <br> 2. $P 1(-1,4) \& P 2(2,5)$ $\begin{aligned} & m=\left(y_{2}-y_{1} / x_{2}-x_{1}\right) \\ & m=(5-4) /(2+1) \\ & m=1 / 3 \end{aligned}$ | Find the slope of the line containing the points: <br> 3. $P 1(-3,1) \& P 2(-4,5)$ $\begin{aligned} & m=\left(y_{2}-y_{1} / x_{2}-x_{1}\right) \\ & m=(5-1) /(-4+3) \\ & m=4 /-1 \\ & m=-4 \end{aligned}$ |
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| Find the slope of the line containing the points: <br> 4. $P 1(0,3) \& P 2(4,0)$ $\begin{aligned} & m=\left(y_{2}-y_{1} / x_{2}-x_{1}\right) \\ & m=(0-3) /(4-0) \\ & m=-3 / 4 \end{aligned}$ | Find the slope of the line containing the points: <br> 5. $P 1(2,4) \& P 2(2,-2)$ $\begin{aligned} & m=\left(y_{2}-y_{1} / x_{2}-x_{1}\right) \\ & m=(-2-4) /(2-2) \\ & m=-6 / 0 \\ & m=\text { undefined } \end{aligned}$ | Find the slope of the line containing the points: <br> 6. $P 1(2,5) \& P 2(-3,-2)$ $\begin{aligned} & m=\left(y_{2}-y_{1} / x_{2}-x_{1}\right) \\ & m=(-2-5) /(-3-2) \\ & m=-7 /-5 \\ & m=7 / 5 \end{aligned}$ |
| Find the slope of the line containing the points: <br> 7. $\operatorname{P1}(2,3) \& P 2(-1,3)$ $\begin{aligned} & m=\left(y_{2}-y_{1} / x_{2}-x_{1}\right) \\ & m=(3-3) /(-1-2) \\ & m=0 /-3 \\ & m=0 \end{aligned}$ | Find the slope of the line containing the points: <br> 8. $\operatorname{P} 1(0,4) \& P 2(-2,5)$ $\begin{aligned} & m=\left(y_{2}-y_{1} / x_{2}-x_{1}\right) \\ & m=(5-4) /(-2-0) \\ & m=1 /-2 \\ & m=-1 / 2 \end{aligned}$ | Find the slope of the line containing the points: <br> 9. $P 1(-3,4) \& P 2(-2,1)$ $\begin{aligned} & m=\left(y_{2}-y_{1} / x_{2}-x_{1}\right) \\ & m=(1-4) /(-2+3) \\ & m=-3 / 1 \\ & m=3 \end{aligned}$ |




| 18. Graph the line that passes through the |
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| point $(3,-4)$ and has a slope of $2 / 5$. |

