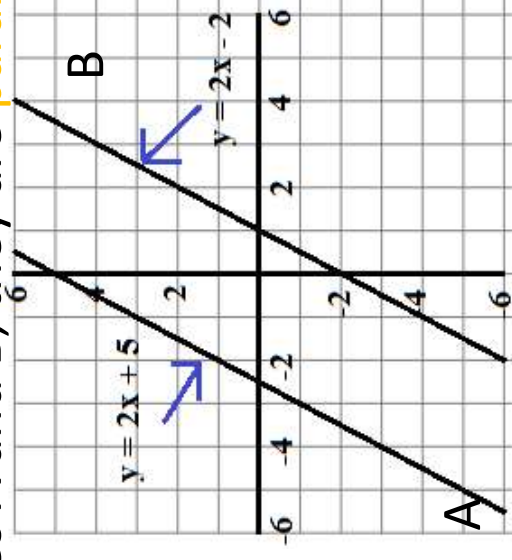


Parallel and Perpendicular Lines

Two lines are **parallel** if they have the same gradient, e.g. for the lines A and B, they are **parallel** because they both have a gradient of 2.



Two lines are **perpendicular** if the product of the gradients is -1 , e.g. for the lines A and B, they are **perpendicular** because when we multiply the gradients: $2 \times -\frac{1}{2} = -\frac{2}{2} = -1$

