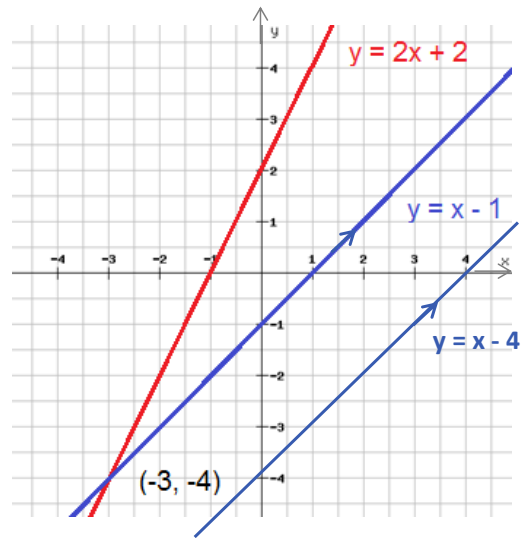


Grade 9

Mathematics

Unit 20
Graphs

Reading material



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By studying this lesson you will be able to...

identify these functions



draw graphs of functions of the form $y = mx$ and $y = mx + c$ and identify their characteristics.



identify the gradient and intercept of a straight line graph,



plot straight line graphs of equations of the form $ax + by = c$



identify the relationship between the gradients of straight lines which are parallel to each other.

Straight line graphs

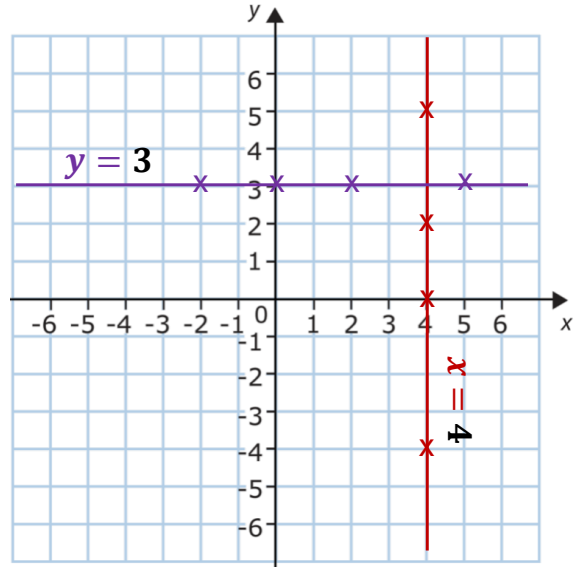
Let's draw a coordinate plane with x and y axes and mark following points. Then join those points and obtain a straight line.

i) $(-2,3)$, $(0,3)$, $(2,3)$, $(5,3)$

Equation of the straight line: $y = 3$

ii) $(4,-4)$, $(4,0)$, $(4,2)$, $(4,5)$

Equation of the straight line; $x = 4$



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