The line $y=4 x+3$ crosses the $y$-axis at A .

1) What is the coordinates of point $A$ ?
2) Write down the equation of a line parallel to $y=4 x+3$.
Bronze $\frac{1}{2}$
A straight line has the equation $y=2 x-4$.
3) Write down the gradient of the line.
4) Write down the coordinates of the point where the line crosses the $y$-axis.

A line passes through the point $(0,5)$. The gradient of the line is -2 .
Write the equation of the line.


A straight line has the equation of
$3 y+12 x=9$
Work out the gradient of this line.
Silver
A line passes through the points $(-2,5)$ and $(6,9)$. What is the equation of the line?

Silver


1) Find the equation of line $L$.
2) Find the equation of line $M$.
3) Write down the coordinates of the point where Lines L and M intersect.

The line $y=4 x+3$ crosses the $y$-axis at A .

1) What is the coordinates of point A ?
$y$-intercept is 3 . so the coordinate is $(0,3)$
2) Write down the equation of a line parallel to $y=4 x+3$

$$
y=4 x+c
$$

E.g. $y=4 x, y=4 x-2$ or $y=4 x+5$ Bronze
A straight line has the equation $y=2 x-4$.

1) Write down the gradient of the line.

The gradient is 2 .
2) Write down the coordinates of the point where the line crosses the $y$-axis. $y$-intercept is -4 . so the coordinate is $(0,-4)$

Bronze

A line passes through the point $(0,5)$. The gradient of the line is -2 .
Write the equation of the line.

$$
y=-2 x+5
$$



A straight line has the equation of

$$
3 y+12 x=9
$$

Work out the gradient of this line.

$$
\begin{gathered}
3 y=9-12 x \\
y=3-4 x
\end{gathered}
$$

The gradient is -4 .
Silver
A line passes through the points $(-2,5)$ and $(6,9)$. What is the equation of the line?

$$
\text { Gradeint }(m)=\frac{\text { change in } y}{\text { change in } x}=\frac{4}{8}=\frac{1}{2}
$$

$y=\frac{1}{2} x+c$ (sub in $(6,9)$ to find value for $c$.

$$
\begin{gathered}
9=\frac{1}{2}(6)+c \\
c=9-3=6 \\
y=\frac{1}{2} x+6
\end{gathered}
$$



1) Find the equation of line $L$.

$$
\begin{gathered}
m=\frac{2}{1}=2, c=3 \\
y=2 x+3
\end{gathered}
$$

2) Find the equation of line $M$.

$$
\begin{gathered}
m=\frac{-1}{1}=-1, c=0 \\
y=-x
\end{gathered}
$$

3) Write down the coordinates of the point where Lines $L$ and $M$ intersect. $(-1,1)$
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