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## STRAIGHT LINE GRAPHS

## THE STRAIGHT LINE EQUATION

A1 State the gradient and the $y$－axis intercept of

$$
y=6 x-5
$$

$y=6 x-5$
B1 State the gradient and the $y$－axis intercept of

$$
y=4 x
$$

B2 State the gradient and the $y$－axis intercept of

$$
y=4-2 x
$$

C2 State the gradient and the $y$－axis intercept of

$$
y=5-x
$$

$$
3 y=2 x+9
$$

D1 Work out the gradient and the $y$－axis intercept of

$$
4 y+8=2 x
$$

$$
\frac{1}{2} y=10+4 x
$$

D2 Work out the gradient and the $y$－axis intercept of

A2 State the gradient and the $y$－axis intercept of

$$
y=7
$$

A3 Work out the gradient and the $y$－axis intercept of

$$
4 y=x-6
$$

B3 State the gradient and the $y$－axis intercept of

$$
y=x-3
$$

C3 State the gradient and the $y$－axis intercept of

$$
y=x
$$

D3 Work out the gradient and the $y$－axis intercept of

$$
x-y+7=0
$$

A4 Work out the gradient and the
$y$－axis intercept of

$$
5+3 x=2 y
$$

B4 State the gradient and the $y$－axis intercept of

$$
y=-x
$$

C4 Work out the gradient and the $y$－axis intercept of

$$
3 y+4 x=6
$$

D4 Work out the gradient and the $y$－axis intercept of

$$
y \text {-axis intercept of }
$$

$$
9=3 x+2 y
$$

## STRAIGHT LINE GRAPHS

 the straight line equation$$
y=m x+c
$$

Ref: G291
3S1

A1 State the gradient and the $y$-axis intercept of

$$
\begin{array}{ll}
y=6 x-5 & \\
& m=6 \\
c=-5
\end{array}
$$

A2 State the gradient and the $y$-axis intercept of

$$
\begin{array}{ll}
y=7 & m=0 \\
y=0 x+7 & c=7
\end{array}
$$

B2 State the gradient and the $y$-axis intercept of

$$
\begin{array}{ll}
y=4 x & \\
y=4 x+0 & m=4 \\
c=0
\end{array}
$$

C1 Work out the gradient and the $y$-axis intercept of

$$
\begin{array}{ll}
3 y=2 x+9 & m=\frac{2}{3} \\
y=\frac{2}{3} x+3 & c=3
\end{array}
$$

D1 Work out the gradient and the $y$-axis intercept of

$$
4 y+8=2 x
$$

$$
\begin{array}{ll}
y=\frac{1}{2} x-2 & m=0.5 \\
c=-2
\end{array}
$$

D2 Work out the gradient and the $y$-axis intercept of

$$
\begin{array}{rl}
\frac{1}{2} y=10+4 x & m=8 \\
y=8 x+20 & c=20
\end{array}
$$

A3 Work out the gradient and the $y$-axis intercept of

$$
\begin{array}{rlr}
4 y & =x-6 & \\
y & =\frac{1}{4} x-1.5 & m=0.25 \\
c=-1.5
\end{array}
$$

B3 State the gradient and the $y$-axis intercept of

$$
\begin{array}{ll}
y=x-3 & \\
y=1 x-3 & m=1 \\
c=-3
\end{array}
$$

C3 State the gradient and the $y$-axis intercept of

$$
\begin{aligned}
& y=x \\
& y=1 x+0
\end{aligned}
$$

D3 Work out the gradient and the $y$-axis intercept of

$$
\begin{gathered}
x-y+7=0 \\
y=1 x+7
\end{gathered}
$$

$$
\begin{aligned}
& m=1 \\
& c=7
\end{aligned}
$$

A4 Work out the gradient and the $y$-axis intercept of

$$
\begin{array}{ll}
5+3 x=2 y & \\
y=1.5 x+2.5 & m=1.5 \\
& c=2.5
\end{array}
$$

B4 State the gradient and the $y$-axis intercept of

$$
\begin{array}{ll}
y=-x & \\
y=-1 x+0 & m=-1 \\
c=0
\end{array}
$$

C4 Work out the gradient and the $y$-axis intercept of

$$
\begin{array}{ll}
3 y+4 x=6 & m=-\frac{4}{3} \\
y=-\frac{4}{3} x+2 & c=2
\end{array}
$$

D4 Work out the gradient and the $y$-axis intercept of

$$
\begin{array}{ll}
9=3 x+2 y & \\
y=-\frac{3}{2} x+4.5 & m=-1.5 \\
& c=4.5
\end{array}
$$

