## Straight Lines - (Parallel and Perpendicular Lines) www.m4ths.com

(1) What is the gradient of the line $y=3 x+1$ ?
(2) What is the gradient of the line $y=4-2 x$ ?
(3) What is the gradient of the line $2 y+10 x=13$ ?
(4) A line has a gradient of 5 and passes through the point $(0,6)$ What is the equation of the line?

A $y=5 x \quad$ B $\quad y=5 x+6 \quad$ C $\quad y=6 x+5 \quad$ D $\quad$ Other
(5) Write down the gradient of a line parallel to the line with equation $y=-6 x+7$
(6) Write down the gradient of a line parallel to the line with equation $5 x-10 y=7$
(7) Write down the gradient of a line perpendicular to the line with equation $y=8 x-17$
(8) Write down the gradient of a line perpendicular to the line with equation $4 y+2 x=3$
(9) The equation of the line parallel to the line $y=4 x+1$ passing through the point $(2,4)$ is
A $y=4 x+4$
B
$y=4 x+2$
C $y=4 x$
D Other
(10) The equation of the line perpendicular to the line $y=2 x-3$ passing through the point $(4,3)$ is
A $y=\frac{1}{2} x+2$
B
$y=-\frac{1}{2} x+3$
C $y=-2 x$
D Other
(11) The equation of the line through the point $(4,7)$ and $(10,25)$ is:
A $\quad y=3 x-5$
B $\quad y=3 x+7$
C $\quad y=\frac{1}{3 x}+4$
D Other
(12) The equation of the line perpendicular to $8 y-6 x-3=0$ passes through the origin ( 0,0 ). What is the equation of the line?
A $y=\frac{3}{4} x$
B $\quad y=-\frac{3}{4} x$
C $y=\frac{4}{3} x$
D Other

