Q1 Find the equation of the straight line through the given point with the given gradient.
a) $(3,7) \quad m=2$
b) $(1,-2) \quad m=3$
c) $(6,-1) \quad m=1$
d) $(1,6) \quad m=0$
e) $(3,1) \quad m=-2$
f) $(1,5) \quad m=-4$
g) $(-1,-1) \quad m=-4$
h) $(0,-1) \quad m=3$
i) $(-2,6) \quad m=-3$

Q2 Find the equation of the straight line through the given point with the given gradient.
a)
$(4,1) \quad m=\frac{1}{2}$
b) $(4,-3) \quad m=\frac{3}{2}$
c) $(5,3) \quad m=-\frac{1}{2}$
d) $(2,-1) \quad m=-\frac{4}{3}$
e) $(-4,2) \quad m=\frac{2}{3}$
f) $(-5,0) \quad m=-\frac{7}{4}$
g) $(1,7) \quad m=\frac{2}{5}$
h) $(-3,-1) \quad m=\frac{1}{4}$
i) $(-3,-2) \quad m=-\frac{4}{5}$

Q3 Find the equation of the straight line through the two given points.
a) $(1,3)$ and $(3,7)$
b) $(2,-1)$ and $(5,8)$
c) $(-1,7)$ and $(2,4)$
d) $(0,-1)$ and $(-3,5)$
e) $(3,-1)$ and $(1,-9)$
f) $(-4,-3)$ and $(-2,7)$
g) $(-5,-2)$ and $(3,6)$
h) $(1,-2)$ and $(5,-2)$
i) $(-1,0)$ and $(-2,3)$

Q4 Find the equation of the straight line joining the two given points.
a) $(4,5)$ and $(6,6)$
b) $(1,-1)$ and $(3,2)$
c) $(1,6)$ and $(-2,4)$
d) $(1,-2)$ and $(-3,3)$
e) $(2,0)$ and $(5,-5)$
f) $(-1,3)$ and $(-4,7)$
g) $(-5,-2)$ and $(3,1)$
h) $(1,-2)$ and $(4,-3)$
i) $(-1,0)$ and $(-4,2)$

Q5 Each of the following equations represents a straight line. Identify the gradient and $y$-intercept.
a) $2 x+y=3$
b) $3 x+y+1=0$
c) $-2 x+y-3=0$
d) $2 y=x+4$
e) $3 y=-x+3$
f) $-y=2 x+3$
g) $-2 y=x+6$
h) $-3 y=-x+12$
i) $-2 y=2 x-3$
j) $2 y=3 x+6$
k) $3 y=-2 x+3$
I) $-4 y=3 x-1$
m) $5 y=4 x$
n) $4 y=5$
o) $x-y=0$
p) $7 y+4 x=0$
q) $2 x-3 y=0$
r) $2 x+3 y=0$
s) $-2 x+5 y=0$
t) $2 x+3 y=1$
u) $4 x+5 y=2$
v) $-7 x+4 y=3$
w) $7 x+3 y+4=0$
x) $3 x-2 y-5=0$

