1. Sketch the graphs for $-4 \leq x \leq 4$
   a. $y = 3x$
   b. $y = -2x$
   c. $y = 4x$
   d. $y = -3x$
   e. $y = \frac{1}{2}x$

2. Sketch the curves for $-2 \leq x \leq 6$
   a. $y = x + 2$
   b. $y = -2x - 1$
   c. $y = 3x + 2$
   d. $y = 2 - \frac{1}{2}x$
   e. $y = -3x - 3$

3. State the gradient for each graph
   a. $y = \frac{1}{4}x - 3$
   b. $y = -\frac{3}{4} + 2x$
   c. $y = \frac{1}{2} - 3x$
   d. $y = 2x + \frac{3}{2}$
   e. $y = -x - \frac{2}{3}$

4. Find (i) the gradient, (ii) the x-intercept, and (iii) the y-intercept for each equation below
   a. $4y + \frac{1}{4}x - 2 = 0$
   b. $-3y = -2 + 2x$
   c. $3y = 2(\frac{1}{2} - x)$
   d. $-y - 2x + \frac{3}{2} = 0$
   e. $-2x - \frac{2}{5} + 5y = 0$

5. Write the equation of the straight line with
   a. gradient 2 and y-intercept 3
   b. gradient -1 and y-intercept 2
   c. gradient 4 and y-intercept -1
   d. gradient $\frac{1}{2}$ and y-intercept -0.2
   e. gradient $2\frac{1}{3}$ and y-intercept 4

6. Find the gradient between the two points given
   a. $A(0,2)\ and\ B(2,6)$
   b. $P(-3,2)\ and\ Q(1,1)$
   c. $M(3,4)\ and\ N(2,2)$
   d. $X(5,-1)\ and\ Y(-2,6)$
   e. $E(-2,-1)\ and\ F(4,-3)$

7. Find the equation of the line with
   a. a gradient of 3 that passes through the point $A(0,2)$
   b. a gradient of -2 that passes through the point $B(1,1)$
   c. a gradient of 1 that passes through the point $C(-2,1)$
   d. a gradient of 4 that passes through the point $D(-3,-2)$
   e. a gradient of -1 that passes through the point $E(4,-2)$

8. Find the equation of the line between the two points given
   a. $M(3,1)\ and\ P(2,5)$
   b. $S(-1,2)\ and\ T(1,6)$
   c. $A(3,-2)\ and\ B(2,2)$
   d. $F(2,-1)\ and\ G(-2,0)$
   e. $V(2,9)\ and\ W(5,-3)$

9. Find the equation of the line parallel to $y = 2x + 1$ that passes through $(2,3)$

10. Given the equation for the line $2y + 4x - 1 = 0$ and the point $A(1,-1)$, find the line
    a. parallel through A
    b. perpendicular through A

11. Given the equation for the line $-2y + x - 2 = 0$ and the point $B(1,-3)$, find the line
    a. parallel through A
    b. perpendicular through A

