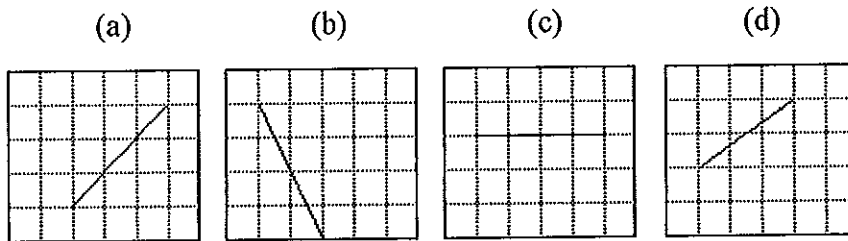


Straight Line Graphs

1. Find the gradients of the following lines:



2. Make y the subject of the following equations and then find:

- (i) The gradient
 (ii) The y -intercept

(a) $x + 2y = 7$

(b) $6x - 2y = 9$

(c) $x + \frac{1}{2} = 2y$

(d) $3(x - 2y) = 12$

(e) $x = \frac{y+4}{2}$

3. Sketch the graphs of the straight lines with the following gradients and intercepts and give the equation of each:

(a) Gradient = 3, y -intercept = 2

(b) Gradient = -0.5, y -intercept = 1

(c) x -intercept = 1, y -intercept = 2.5

(d) Gradient = 0, y -intercept = -3

4. Sketch the graphs of each of the following lines on separate axes:

(a) $y = 2x - 5$

(b) $3y + 2x = 12$

(c) $x = -1.5$

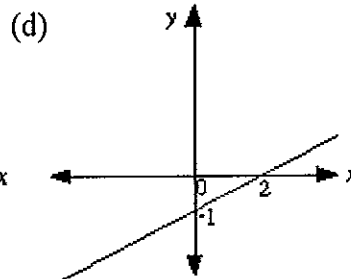
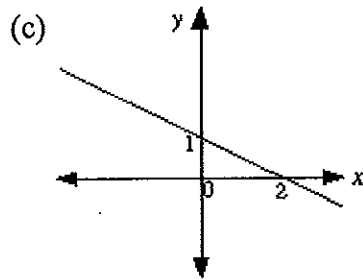
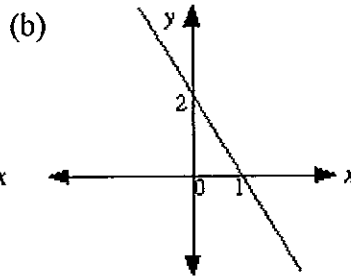
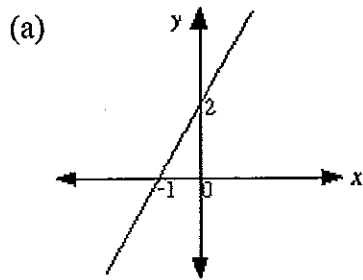
(d) $2 + 3y = 6x$

(e) $y = \frac{2}{3}x + 4$

(f) $y = 2(3 - x)$

(g) $2x = \frac{3y - 4}{5}$

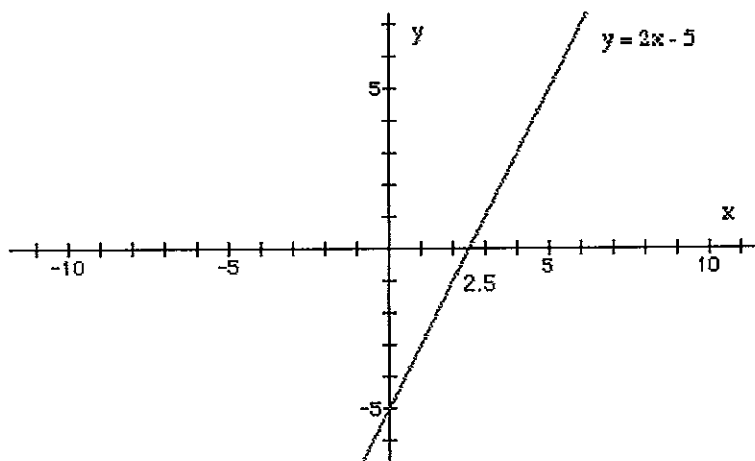
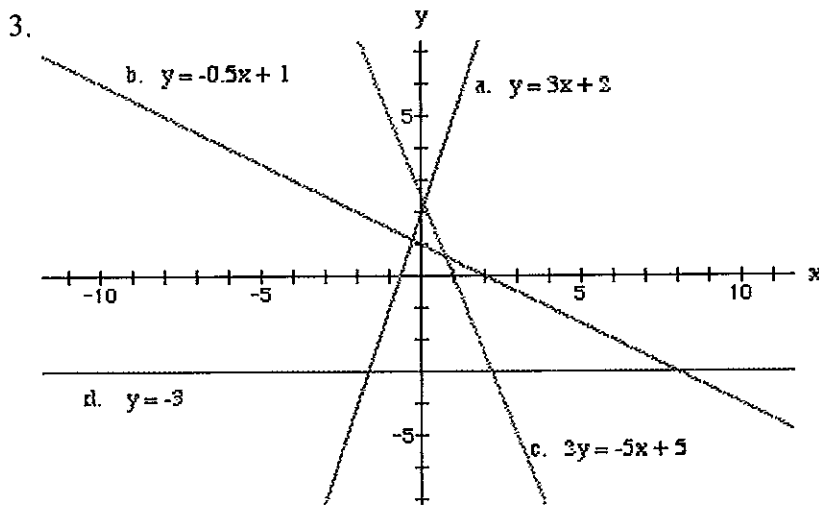
5. Give the equations of the following linear functions:

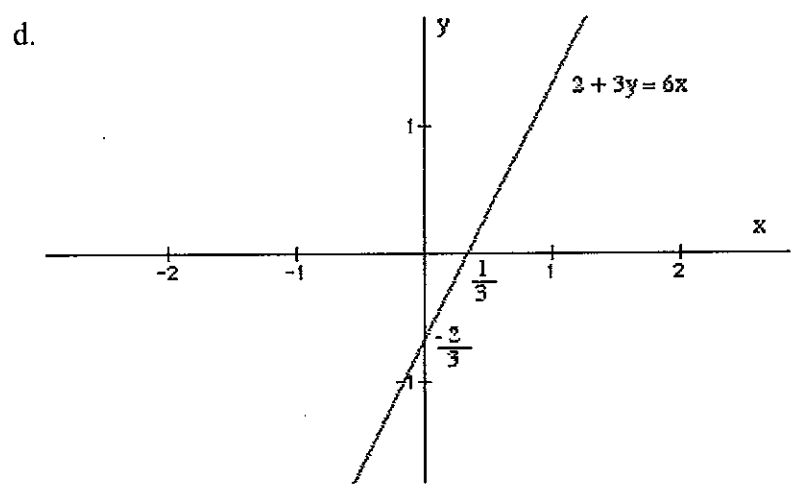
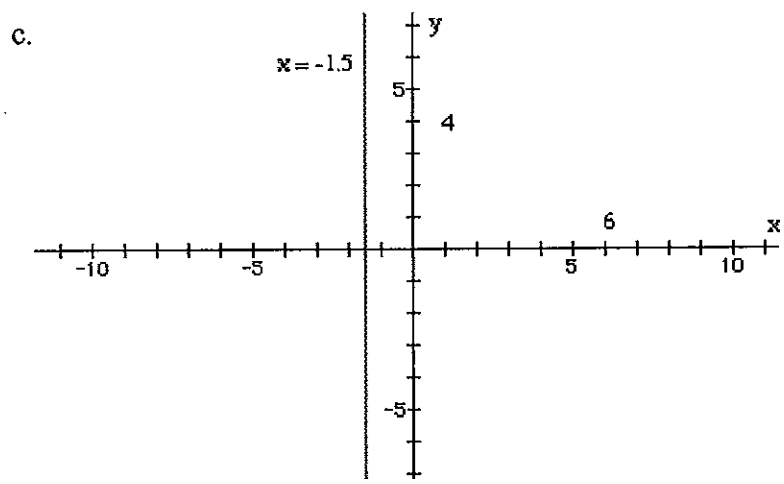
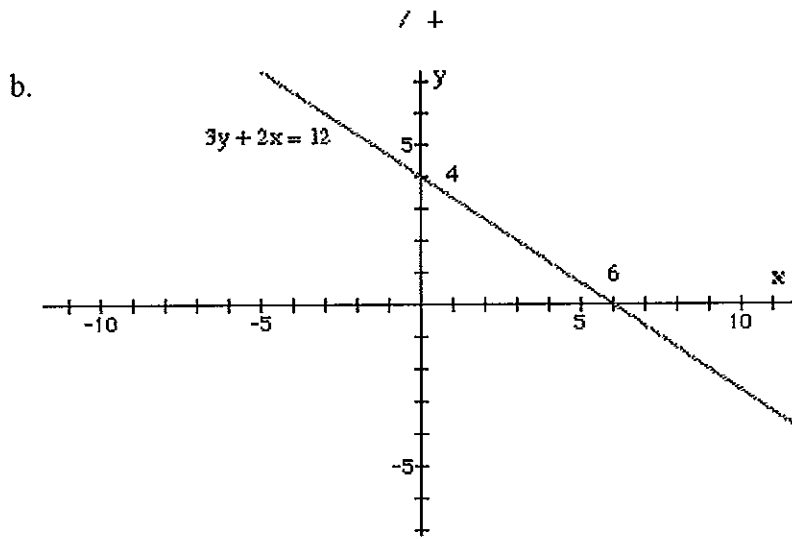


Straight Line Graphs

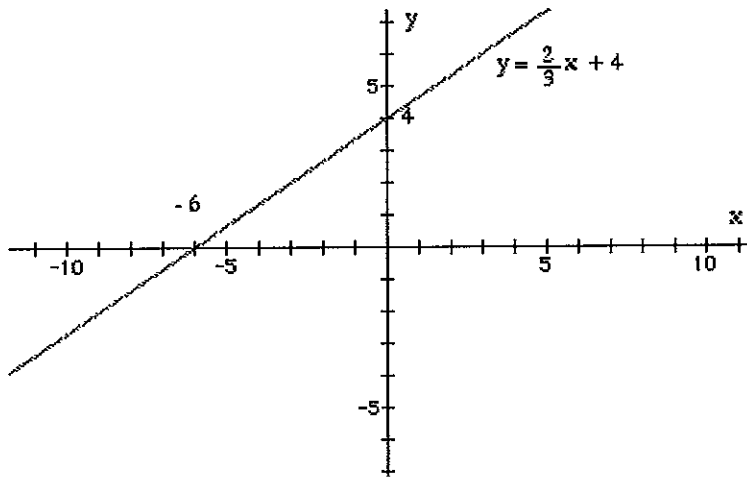
1. a. Gradient = 1
- b. Gradient = -2
- c. Gradient = 0
- d. Gradient = $\frac{2}{3}$

2.	equation	gradient	y-intercept
a.	$y = -0.5x + 3.5$	-0.5	3.5
b.	$y = 3x - 4.5$	3	-4.5
c.	$y = 0.5x + 0.25$	0.5	0.25
d.	$y = 0.5x - 2$	0.5	-2
e.	$y = 2x - 4$	2	-4

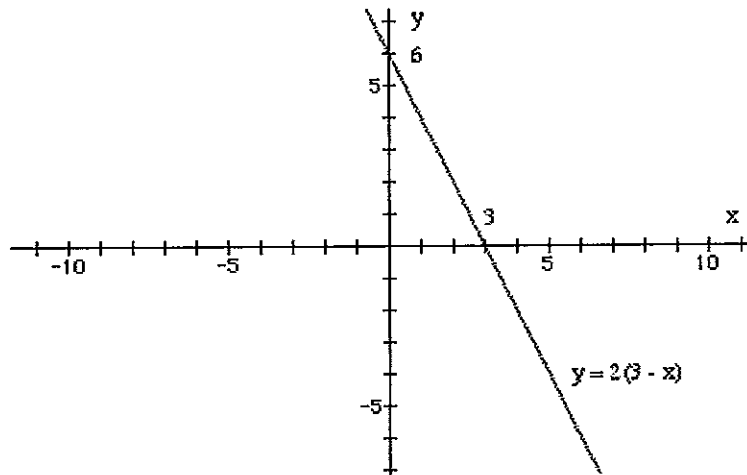




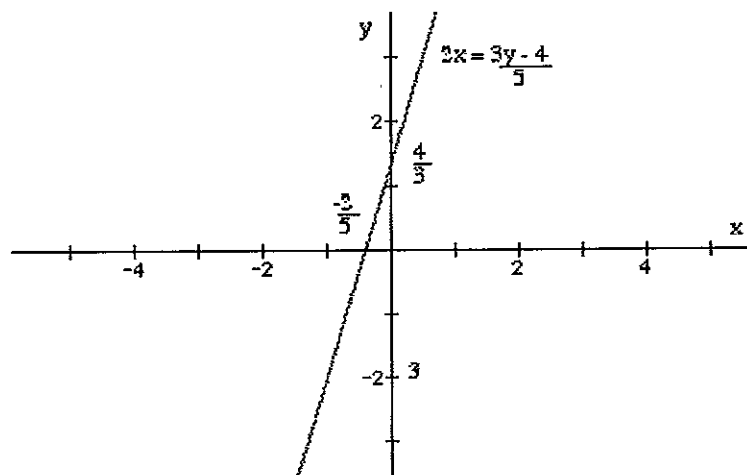
e.



f.



g.



5. a. $y = 2x + 2$

b. $y = -2x + 2$

c. $y = -0.5x + 1$

d. $y = 0.5x - 1$

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