

Name: _____

Exam Style Questions

Parallel Lines



Equipment needed: Calculator, pen

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 196



Answers and Video Solutions



1. Write down the gradient of a line parallel to $y = 7x + 4$

.....
(1)

2. Circle the equation of the line parallel to $y = 3x - 5$

$y = 2x - 5$ $y = -3x + 4$ $y = 3x + 1$

.....
(1)

3. Write down the equation of a line parallel to $y = 2x - 3$

.....
(1)

4. Write down the equation of the line that is parallel to $y = 6x + 1$ and passes through $(0, 8)$.

.....
(2)

5. Write down the equation of the line that is parallel to $y = x + 1$ and passes through $(0, -3)$.

.....
(2)

6. Write down the equation of the line that is parallel to $y = -4x - 5$ and passes through $(0, 10)$.

.....
(2)

7. Circle the equation of the line parallel to $y = -x + 2$

$$y = x + 3$$

$$y = -x - 1$$

$$y = -2x - 1$$

(1)

8. Circle the equation of the line parallel to $y = \frac{1}{4}x$

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

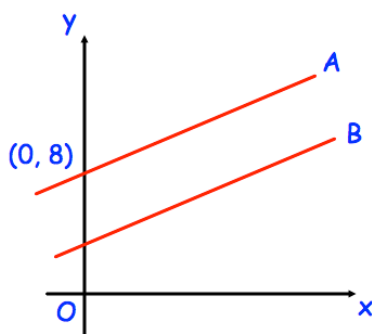
$$y = -4x + 1$$

$$y = 4x + 3$$

$$y = -\frac{1}{4}x$$

(1)

9.



The lines A and B are parallel.

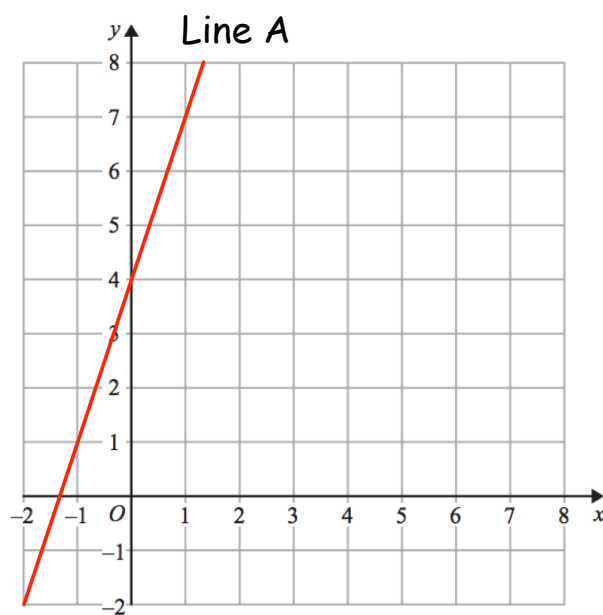
The line A passes through the point $(0, 8)$

The line B has equation $y = 3x + 1$

Write down the equation of line A

.....
(2)

10. The line A is shown below.



(a) Work out the gradient of Line A.

.....
(2)

(b) Write down the equation of a line parallel to Line A.

.....
(1)

11. A straight line L passes through the points $(0, 6)$ and $(4, -2)$.
A straight line M passes through the point $(0, 1)$ and is parallel to line L.

Find the equation of the line M

.....
(3)

12. Write down the equation of the line that is parallel to $x + 2y = 4$ and passes through the point $(0, 5)$

.....
(2)

13. The equations of five lines are given below.

Line A $y = 2x + 3$

Line B $y = \frac{1}{2}x - 3$

Line C $y = 6 - x$

Line D $y - 2x = 7$

Line E $y + 2x = 3$

(a) Which line goes through the point (1, 9)?

.....
(1)

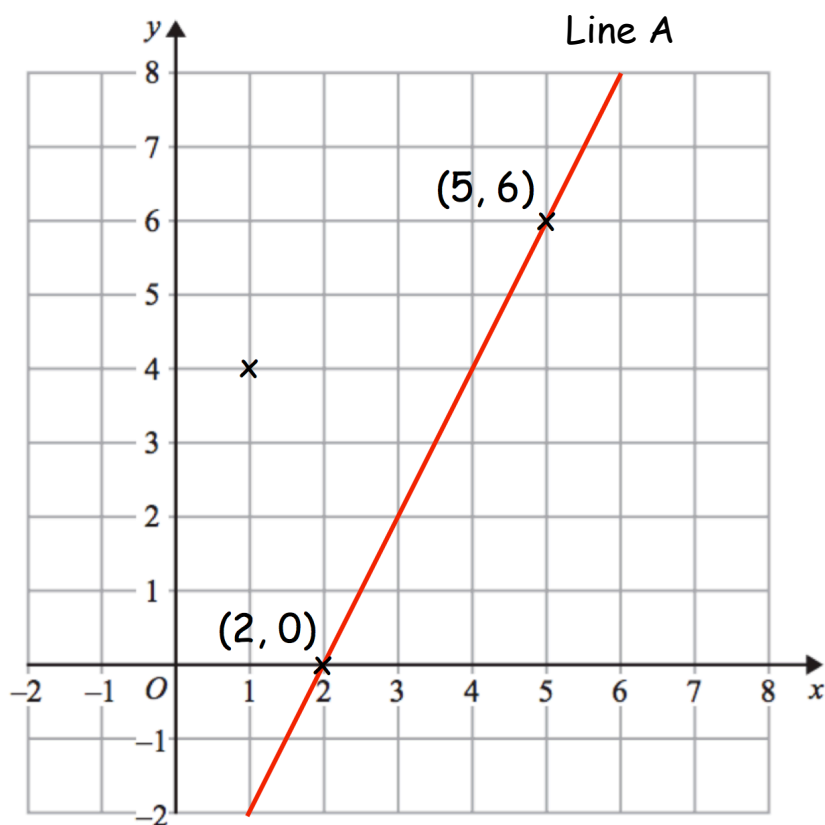
(b) Which two lines cross the y-axis at the same point?

..... and
(2)

(c) Which two lines are parallel?

..... and
(2)

14. A straight line, A, passes through the points (2, 0) and (5, 6).



- (a) Work out the gradient of Line A.

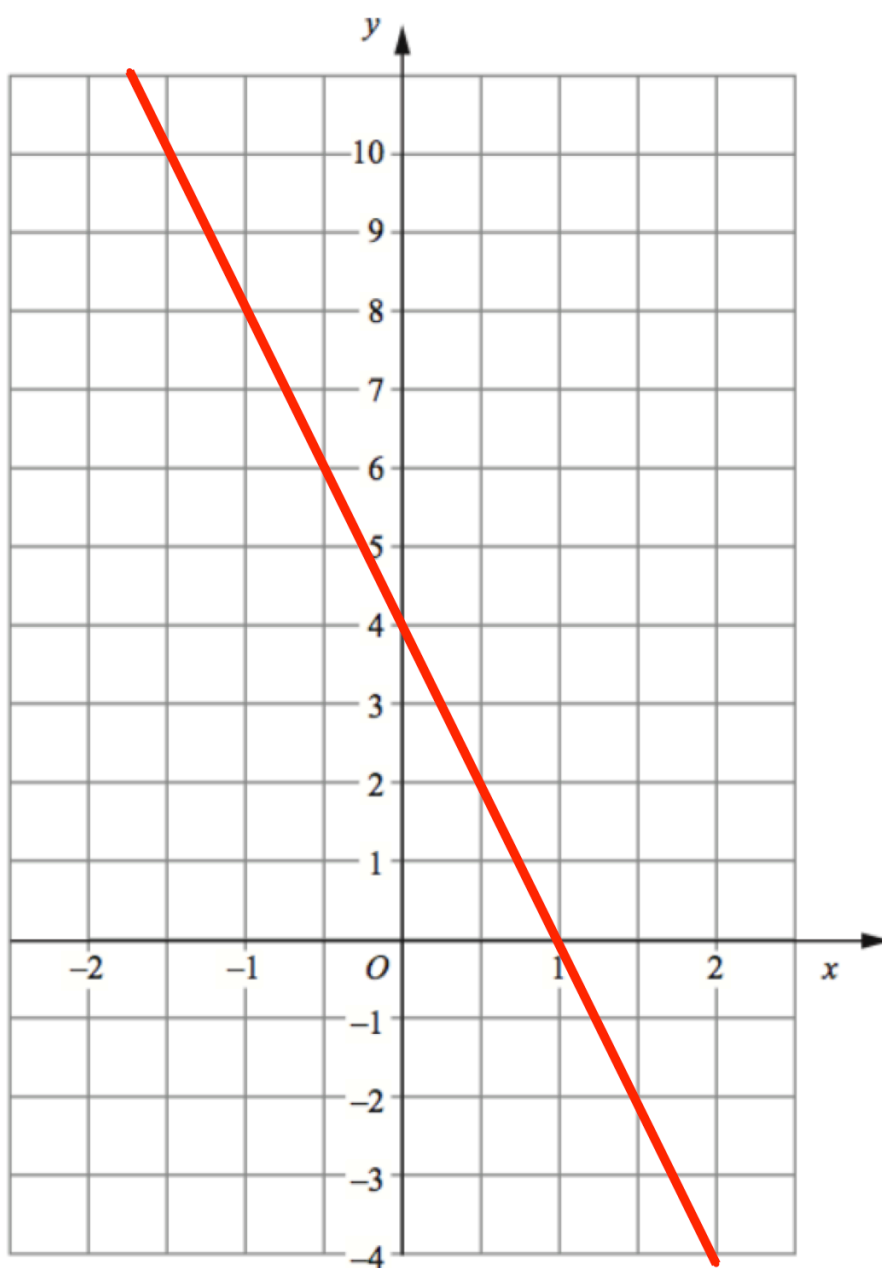
.....
(2)

Line B is parallel to Line A and passes through the point (1, 4).

- (b) Work out the equation of Line B.

.....
(2)

15.



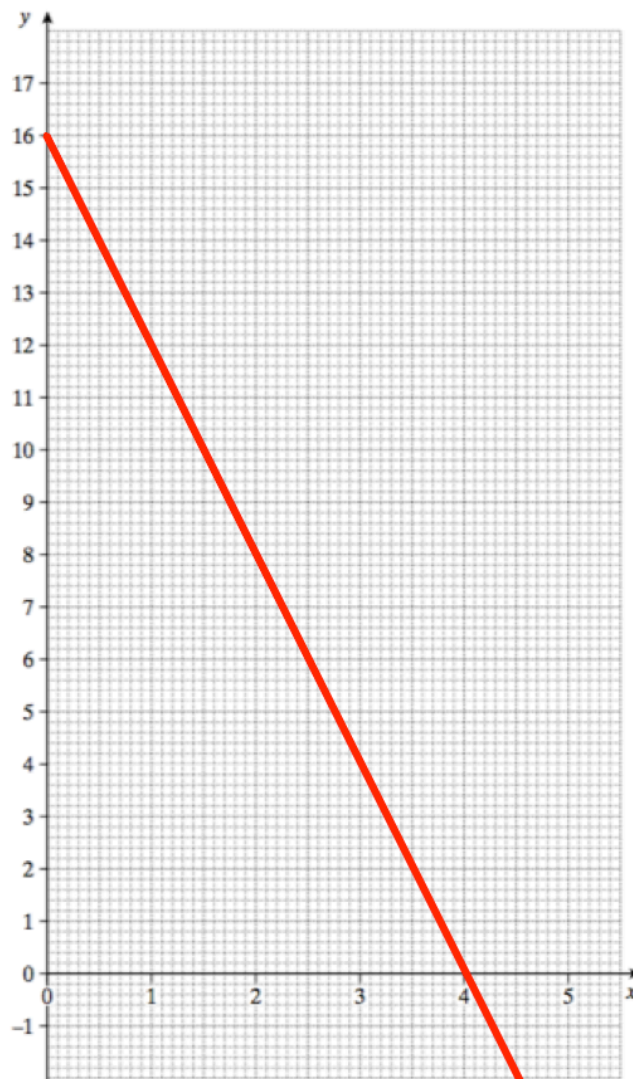
The line A is drawn on the grid.

Another line B is parallel to line A and passes through the point (2, 0)

Find the equation for line B.

.....
(4)

16. On the grid below, the lines A and B are drawn.

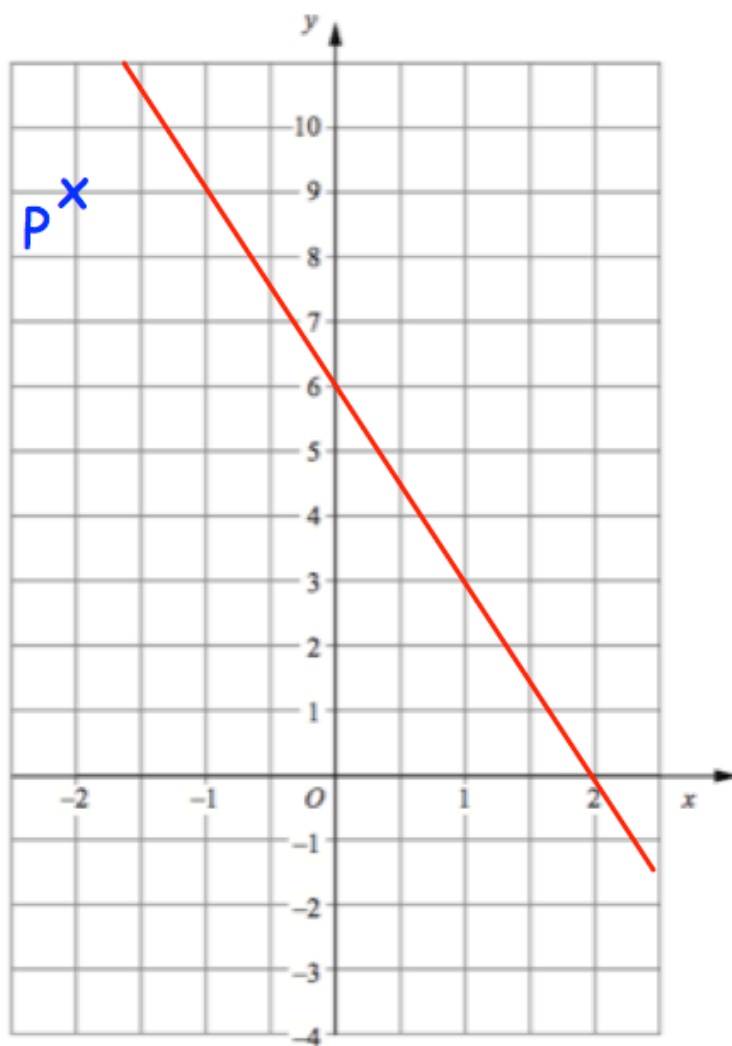


Shown above is the graph of line L

The line M is parallel to line L and passes through the point (1, 6)

Find the equation of line M.

17. The line L is drawn on the grid.



- (a) Find the equation of L .

.....
(3)

The point P has coordinates $(-2, 9)$.

- (b) Find an equation of the line that is parallel to L and passes through P .

.....
(2)

18. Line A and Line B are parallel.

Line A has equation $y = 5x + 9$

Line B passes through the point $(7, 41)$

Find the equation of Line B.

.....
(3)

19. The straight line L has equation $y = 3x + 2$

The straight line M is parallel to line L and passes through the point $(5, -1)$.

Find the equation of line M

.....
(3)

20. Write down the equation of the line that is parallel to $y = 8x - 4$ and passes through the point $(-3, -1)$

.....
(3)

21. Show that the lines with equations $y = 4x - 1$ and $3y - 12x + 1 = 0$ are parallel.

(2)

-
22. Write down the equation of the line that is parallel to $8x - 2y = 3$ and passes through $(5, -1)$

.....
(3)

23. Line A and Line B are parallel.

The line A passes through the points $(-3, 4)$ and $(3, 7)$.

The line B passes through the points $(1, 0)$ and $(10, p)$.

Find the value of p .

.....
(4)

24. A straight line, L , passes through the point $(-2, 5)$ and is parallel to $x + 2y = 4$

Find the coordinates of the point where L crosses the x -axis.

.....
(4)