Name:

Exam Style Questions

Parallel Lines



Equipment needed: Pen, pencil & ruler

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



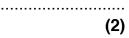
Answers and Video Solutions



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)

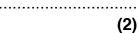


Write down the equation of the line that is parallel to y = x + 1 and passes through (0, -3).



6.

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



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



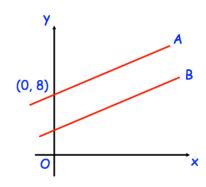
$$y = x + 3$$
 $y = -x - 1$ $y = -2x - 1$

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



$$y = \frac{1}{4}x + 2$$
 $y = -4x + 1$ $y = 4x + 3$ $y = -\frac{1}{4}x$

9. **!!!**



The lines A and B are parallel.

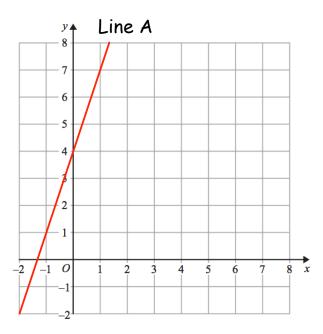
The line A passes through the point (0, 8)The line B has equation y = 3x + 1

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	 3)
12.	Write down the equation of the line that is parallel to $x + 2y = 4$ and passes through the point $(0, 5)$	
	(2	 2)

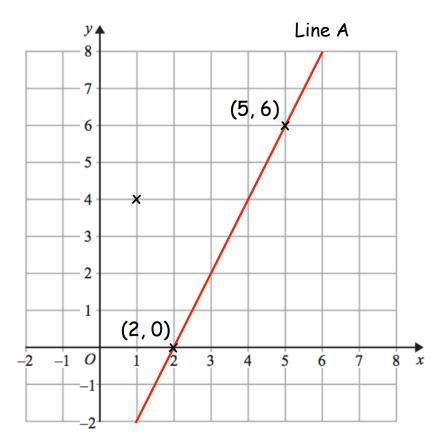
13. The equations of five lines are given below. Line A y = 2x + 3 $y = \frac{1}{2}x - 3$ Line B Line C y = 6 - xLine D y - 2x = 7Line E y + 2x = 3(a) Which line goes through the point (1, 9)? (1) (b) Which two lines cross the y-axis at the same point? and **(2)**

(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.

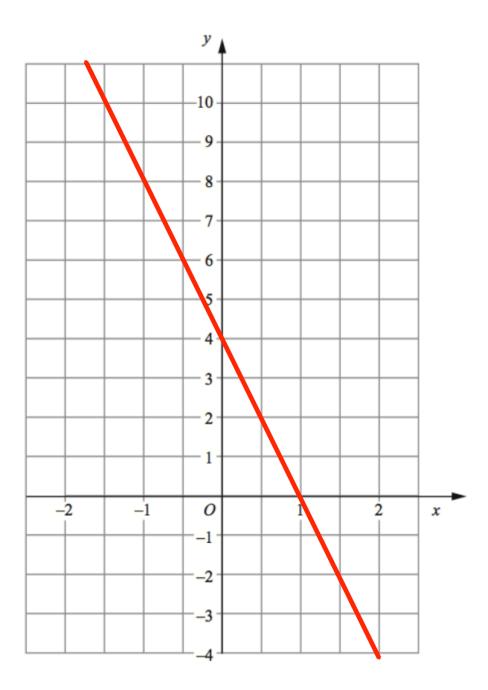
(2)

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

(b) Work out the equation of Line B.

(2)





The line A is drawn on the grid.

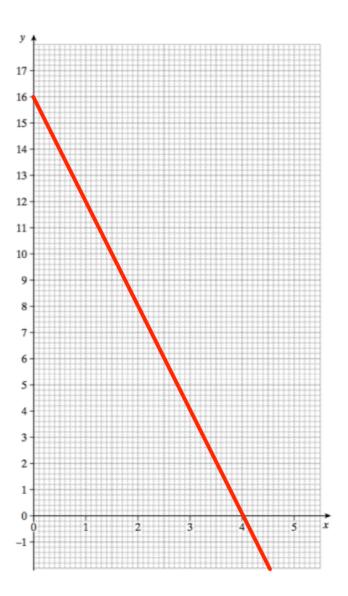
Another line B is parallel to line A and passes through the point (2, 0)

Find the equation for line B.

......

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





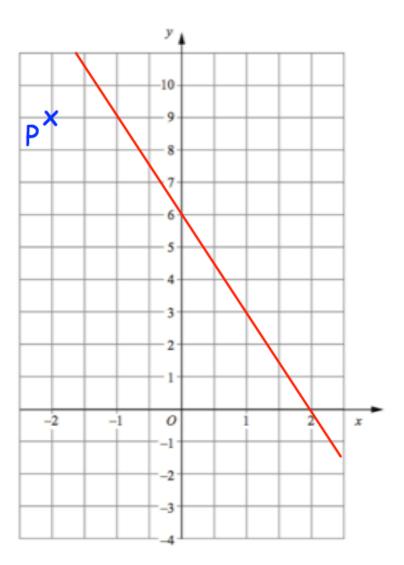
Shown above is the graph of line L

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	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	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 $y = 3x + 2$
050 i	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)



Show that the lines with equations y = 4x - 1 and 3y - 12x + 1 = 021. are parallel.

(2)



Write down the equation of the line that is parallel to 8x - 2y = 3and 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	4)
24.	A straight line, L, passes through the point (-2, 5) and is parallel to $x + 2y = 4$	1
20 0 5 0 1 2 2 3 0 0 0 1 0 0 1 0 0 1 0 0 1	Find the coordinates of the point where L crosses the x-axis.	
0 50 ii 20 ii 20 ii 20 ii 20 ii 20 ii 20 ii 20 ii 20 ii 20 ii		

(4)