Name:

# GCSE (1 - 9)

## Parallel and Perpendicular Lines

#### Instructions

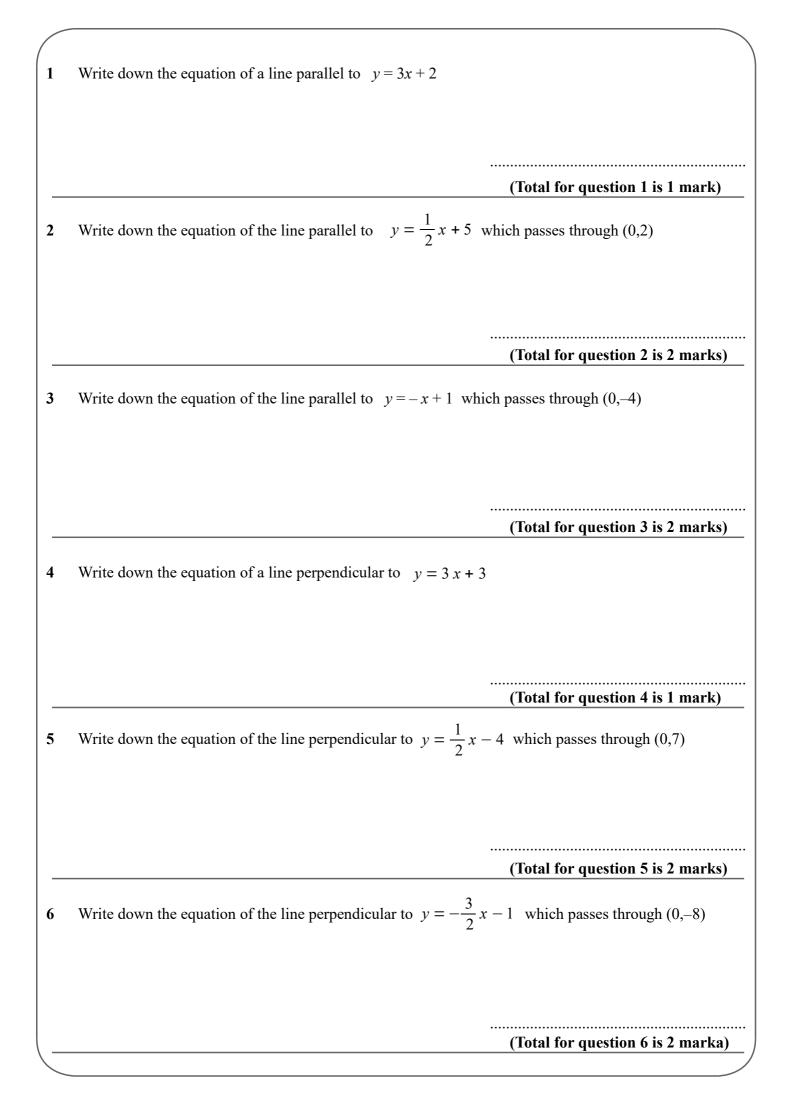
- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must show all your working out.

#### Information

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

### **Advice**

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- · Check your answers if you have time at the end



7	Find the equation of the line parallel to $2y - 3x + 2 = 0$ which passes through (0,4)
_	(Total for question 7 is 2 marks)
8	Find the equation of the line parallel to $2x + 5y = 10$ which passes through $(0,-3)$
	(Takal four grounds on 9 is 2 months)
_	(Total for question 8 is 2 marks)
9	Find the equation of the line perpendicular to $5y = 2x - 4$ which passes through (0,7)
	(Total for question 0 is 2 moules)
_	(Total for question 9 is 2 marks)

10	Here are the	ne equations	s of five stra	aight lines.

Line A 
$$y = 2x - 3$$
  
Line B  $2y = x + 3$   
Line C  $4y = 3x - 2$   
Line D  $2y = 4x - 1$   
Line E  $3y = 2x - 2$ 

Two of these lines are parallel.

Write down the two parallel lines.

Line	and Line
(Total for q	uestion 10 is 1 mark)

11 Here are the equations of five straight lines.

Line A 
$$y+3x=4$$
  
Line B  $2y=x+1$   
Line C  $y+2x=3$   
Line D  $y=4x-2$   
Line E  $2y=2x-1$ 

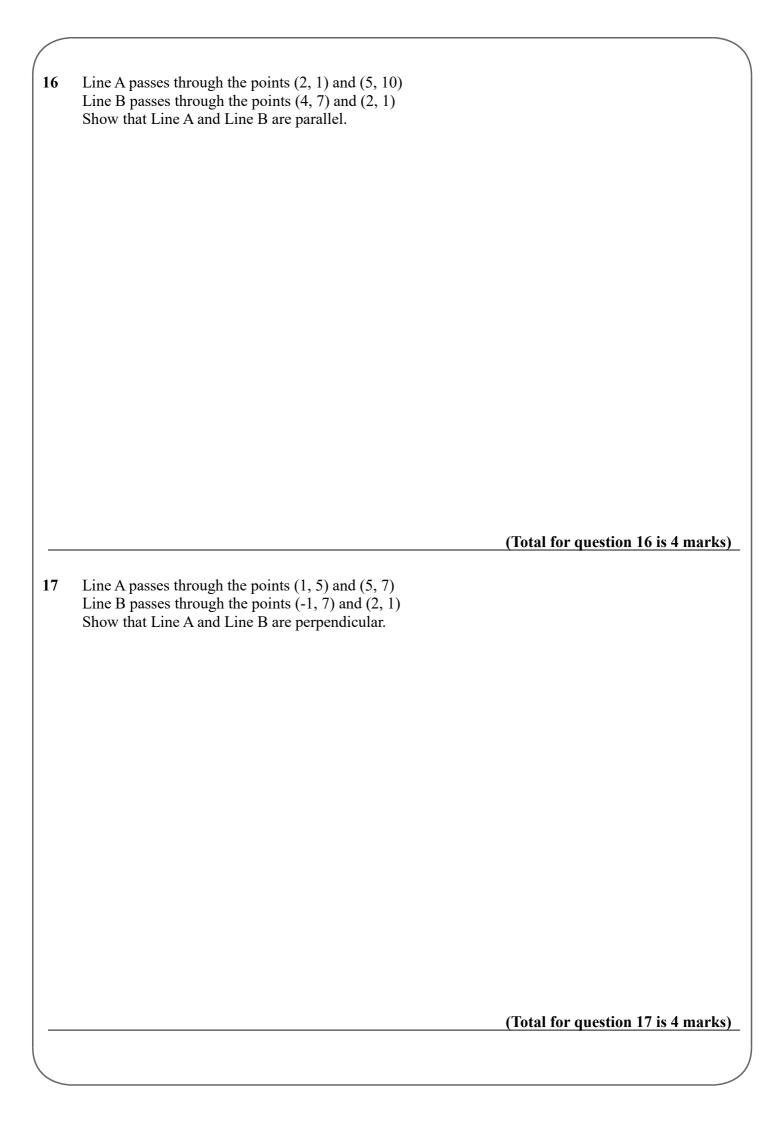
Two of these lines are perpendicular.

Write down the two perpendicular lines.

Line ...... and Line ......
(Total for question 11 is 1 mark)

		Line A passes through the points (2, 1) and (5, 10)  Find the equation of the line parallel to A that passes through (2, 5)
Line A passes through the points (1, 5) and (5, 7) Find the equation of the line perpendicular to A that passes through (-1,7)		This the equation of the fine paramet to A that passes through (2,3)
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ļ	Line A passes through the points (-2, 1) and (4, 10) Find the equation of the line parallel to A that passes through (2, 1)	2,7)
	Line A passes through the points (2, -5) and (10, -1)  Find the equation of the line perpendicular to A that passes through	
	Line A passes through the points (2, -5) and (10, -1) Find the equation of the line perpendicular to A that passes through	
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	Line A passes through the points (2, -5) and (10, -1) Find the equation of the line perpendicular to A that passes through	(Total for question 14 is 3 marks) ough (4,3)
	Line A passes through the points (2, -5) and (10, -1) Find the equation of the line perpendicular to A that passes through	



		· ·
18	Line A passes through the points $(3, 6)$ and $(5, -2)$ Line B passes through the points $(2, 5)$ and $(8, k)$	
	Line A and Line B are parallel.	
	Find the value of $k$ .	
		<i>k</i> =
_		(Total for question 18 is 4 marks)
19	Line A passes through the points (-3, -1) and (-1, 9)	
	Line B passes through the points $(-2, 1)$ and $(k, 4)$	
	Line B passes through the points (-2, 1) and ( <i>k</i> , 4)  Line A and Line B are perpendicular.	
	Line A and Line B are perpendicular.	
	Line A and Line B are perpendicular.	
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	Line A and Line B are perpendicular.	$k = \dots$ (Total for question 19 is 4 marks)