

## CHEMISTRY ONLINE - TUITION -

Phone: +442081445350
www.chemistryonlinetuition.com

## Email:asherrana@chemistryonlinetuition.com

## PURE MATH

## ALGEBRA AND FUNCTION

## Level \& Board

EDEXCEL (A-LEVEL)

TOPIC:

PAPER TYPE:

STRAIGHT LINE

QUESTION PAPER - 6

TOTAL QUESTIONS

TOTAL MARKS

## 8

42
## Questions

Q1.
The line $l 1$ has equation $4 y-3 x=10$
The line $l 2$ passes through the points $(5,-1)$ and $(-1,8)$.
Determine, giving full reasons for your answer, whether lines $l 1$ and $l 2$ are parallel, perpendicular or neither.
(Total for question = 4 marks)

Q2.
The line $l 3$ has equation $2 y+5 x=8$
The line $l 4$ passes through the points $(3,-2)$ and $(1,6)$.
Determine, giving full reasons for your answer, whether lines $l 3$ and $l 4$ are parallel, perpendicular or neither.
(Total for question = 5 marks)

Q3.

The line $l 5$ has equation $3 x+2 y=6$
The line $l 6$ passes through the points $(2,4)$ and $(5,-1)$.
Determine, giving full reasons for your answer, whether lines $l 5$ and $l 6$ are parallel, perpendicular or neither.
(3)
(Total for question = 6 marks)

Q4.
The line $l 5$ has equation $y=2 x+3$
The line $l 6$ passes through the points $(-1,1)$ and $(3,7)$.
Determine, giving full reasons for your answer, whether lines $l 5$ and $l 6$ are parallel, perpendicular or neither.
(Total for question = 4 marks)

Q5.
The line $l 5$ has equation $2 x-5 y=3$
The line $l 6$ passes through the points $(4,-1)$ and $(1,6)$.
Determine, giving full reasons for your answer, whether lines $l 5$ and $l 6$ are parallel, perpendicular or neither.
(Total for question = 8 marks)

Q6.
The line 11 has equation $2 x+4 y-3=0$
The line 12 has equation $\mathrm{y}=\mathrm{mx}+7$, where m is a constant.
Given that 11 and 12 are perpendicular,
(a) find the value of $m$.

The lines l 1 and l 2 meet at the point P .
(3)
(b) Find the $x$ coordinate of $P$.

Q7.
The equation of the line passing through points $C(2,5)$ and $D(6,-1)$.Find an equation for $l$.
(5)
(Total for question = 5 marks)

Q8.
The equation of the line passing through points $\operatorname{I}(1,4)$ and $\mathrm{J}(2,6)$. Find an equation for $l$.
(Total for question = 4 marks)


Phone: +442081495350 wrw.chemistrvonlinetuillon.com Em ail: asherrana@chemistryonlinetuition.com

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## CONTACT INFORMATION FOR

## CHEMISTRY ONLINE TUITION

- UK Contact: 02081445350
- International Phone/WhatsApp: 00442081445350
- Website: www.chemistryonlinetuition.com
- Email: asherrana@chemistryonlinetuition.com

Address: 210-Old Brompton Road, London SW5 OBS, UK

