

Phone: +442081445350

[www.chemistryonlinetuition.com](http://www.chemistryonlinetuition.com)

Email: [asherrana@chemistryonlinetuition.com](mailto:asherrana@chemistryonlinetuition.com)

# PURE MATH

## ALGEBRA AND FUNCTION

Level & Board	EDEXCEL (A-LEVEL)
TOPIC:	STRAIGHT LINE
PAPER TYPE:	QUESTION PAPER - 4
TOTAL QUESTIONS	8
TOTAL MARKS	45

ChemistryOnlineTuition Ltd reserves the right to take legal action against any individual/ company/organization involved in copyright abuse.

## Questions

**Q1.**

The equation of the line passing through points A (-1, 3) and B (5, 7). Find an equation for  $l$ .

**(4)**

**(Total for question = 4 marks)**

**Q2.**

The equation of the line passing through points G (2, 5) and H (5, -3) Find an equation for  $l$ .

**(4)**

**(Total for question = 4 marks)**

CHEMISTRY ONLINE  
— TUITION —

I am Sorry !!!!!

**Q3.**

Consider two lines with the equations:

Line 3:  $3x - 2y + 5 = 0$

Line 4:  $y = nx - 2$

- (a) find the value of 'n' such that Line 3 and Line 4 are perpendicular. (3)
- (b) find the x-coordinate of the point 'Q' where the two lines intersect. (3)

**(Total for question = 6 marks)**

**Q4.**

The equation of the line passing through points A (3, 1) and B (4, -2) Find an equation for  $l$ .

**(4)**

**(Total for question = 4 marks)**

**Q5.**

Consider two lines with the equations:

Line 5:  $4x+3y-6=0$

Line 6:  $y=px+2$

(a) find the value of 'n' such that Line 5 and Line 6 are perpendicular. **(4)**

(b) find the x-coordinate of the point 'R' where the two lines intersect. **(4)**

**(Total for question = 8 marks)**

CHEMISTRY ONLINE  
— TUITION —

I am Sorry !!!!!

**Q6.**

The line  $l_1$  has equation  $2x + 4y - 3 = 0$

The line  $l_2$  has equation  $y = mx + 7$ , where  $m$  is a constant.

Given that  $l_1$  and  $l_2$  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  $P$ .

**(4)**

**(Total for question = 7 marks)**

**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)**

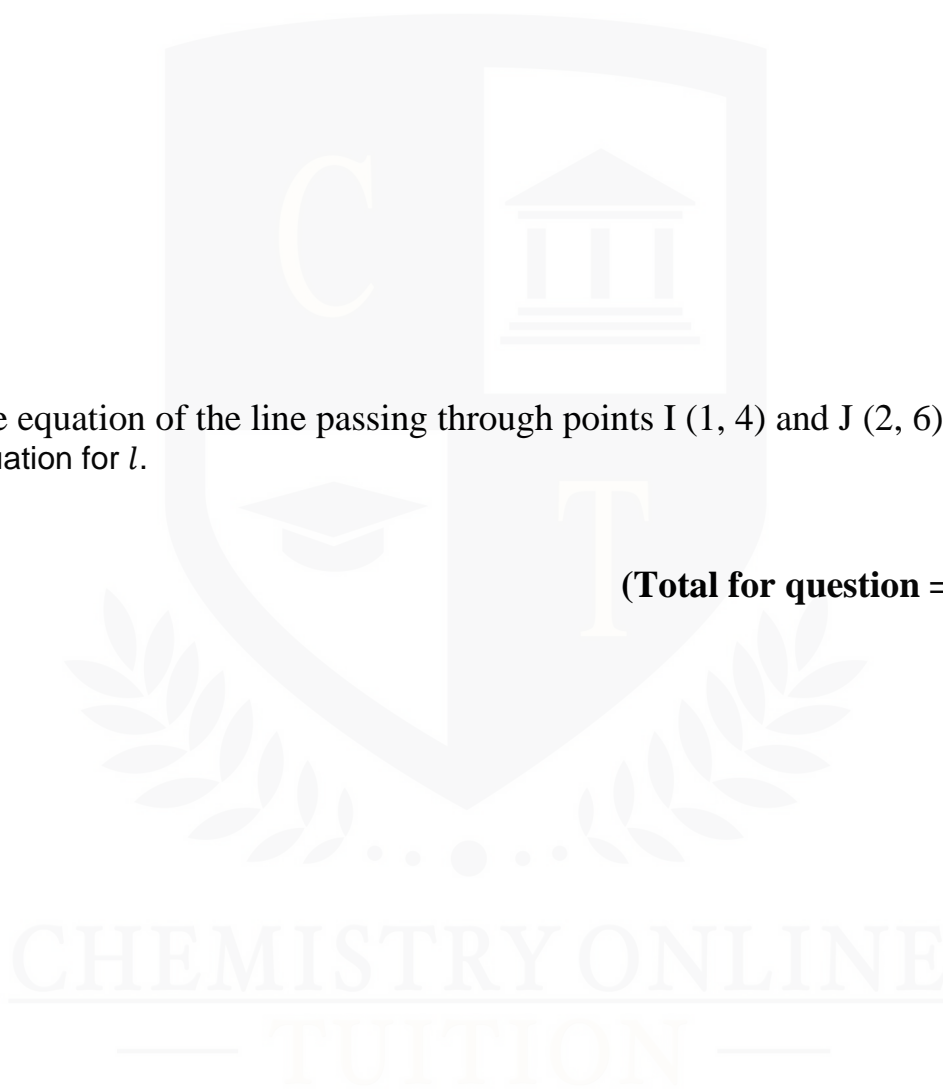
I am Sorry !!!!!

**Q8.**

The equation of the line passing through points I (1, 4) and J (2, 6). Find an equation for  $l$ .

**(4)**

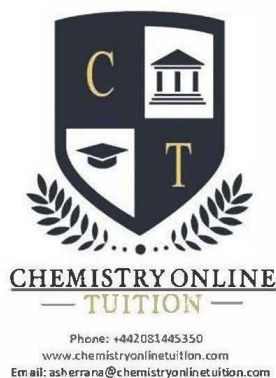
**(Total for question = 4 marks)**



I am Sorry !!!!!



**DR. ASHAR RANA**



- Founder & CEO of Chemistry Online Tuition Ltd.
- Tutoring students in UK and worldwide since 2008
- CIE & EDEXCEL Examiner since 2015
- Chemistry, Physics, and Math's Tutor

## CONTACT INFORMATION FOR CHEMISTRY ONLINE TUITION

- UK Contact: 02081445350
  - International Phone/WhatsApp: 00442081445350
  - Website: [www.chemistryonlinetuition.com](http://www.chemistryonlinetuition.com)
  - Email: [asherrana@chemistryonlinetuition.com](mailto:asherrana@chemistryonlinetuition.com)
- Address: 210-Old Brompton Road, London SW5 OBS, UK