$$-2q + 2 - 8 = 0$$

$$-29 - 6 = 0$$

$$-2q = 6$$

$$q = -3$$

$$6/11-21=-5-3\mu$$

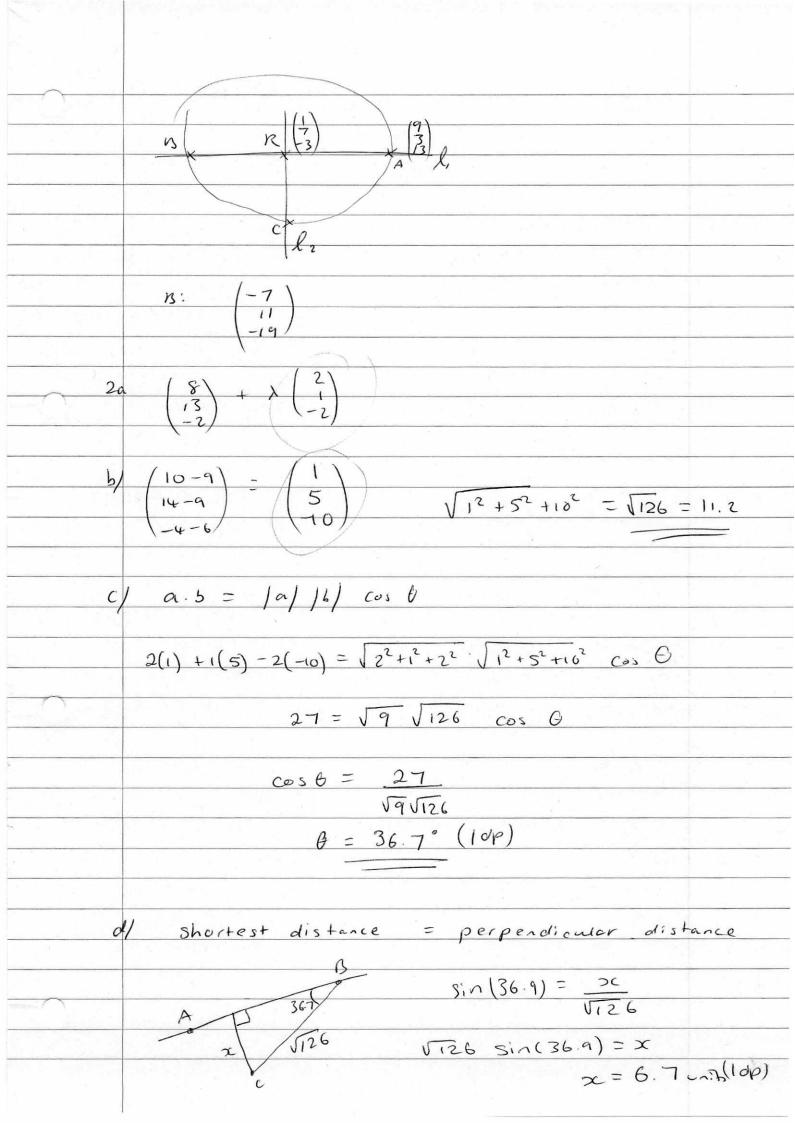
$$2 + \lambda = 11 + 2\mu$$
 @ $17 - 4\lambda = p + 2\mu$

$$17 - 4(5) = p + 2(-2)$$

$$-3 = p-4$$

$$c/r = \begin{pmatrix} 11\\2\\17 \end{pmatrix} + 5\begin{pmatrix} -2\\1\\-4 \end{pmatrix}$$

$$= \begin{pmatrix} 1 \\ 7 \\ -3 \end{pmatrix}$$



311

G.1

G.1

$$\sqrt{3}$$
 $\sqrt{3}$
 $\sqrt{3}$

$$\frac{c}{\begin{pmatrix} -9 \\ 0 \\ 10 \end{pmatrix}} + \frac{2}{\begin{pmatrix} 1 \\ -1 \end{pmatrix}} = \frac{5}{7}$$

$$-9 + 2\lambda = 5$$

$$2\lambda = 14$$

$$2\lambda = 14$$

$$\lambda = 7$$

$$\begin{pmatrix} -9\\0\\10 \end{pmatrix} + 7\begin{pmatrix} 2\\1\\-1 \end{pmatrix} = \begin{pmatrix} 5\\7\\3 \end{pmatrix}$$

$$R: \begin{pmatrix} -11 \\ -1 \\ 11 \end{pmatrix}$$

$$4) \quad \overrightarrow{AB} = \begin{pmatrix} 3-2 \\ 4-6 \\ 1-1 \end{pmatrix} = \begin{pmatrix} 1 \\ -2 \\ 2 \end{pmatrix}$$

b)
$$\begin{pmatrix} 2 \\ 6 \\ -1 \end{pmatrix} + \lambda \begin{pmatrix} 1 \\ -2 \\ 2 \end{pmatrix}$$

$$\frac{c}{a.b} = \frac{|a|}{|b|} \cos \theta$$

$$\frac{|a|}{|a|} = \sqrt{9} \sqrt{2} \cos \theta$$

$$3 = \sqrt{18} \cos \theta$$

all Longth of AD =
$$\sqrt{\frac{3}{2}}^2 + \sqrt{\frac{2}{2}}^2 + \sqrt{\frac{2}{2}}^2$$

$$= \frac{3\sqrt{3}}{2}$$

$$= \frac{3\sqrt{3}}{2}$$

$$= (3\sqrt{3})^2 + (3\sqrt{2})^2 - (3\sqrt{2})$$

$$= (3\sqrt{3})^2 + (3\sqrt{2})^2 + (3\sqrt{2})^2 - (3\sqrt{2})$$

$$= (3\sqrt{3})^2 + (3\sqrt{2})^2 + ($$

$$a = 18$$

$$a = 18$$

$$\begin{cases} 8 \\ 12 \\ 14 \end{cases} + \lambda \begin{pmatrix} 1 \\ 1 \\ -1 \end{pmatrix} = \begin{pmatrix} 13 \\ 13 \end{pmatrix}$$

$$12 + \lambda = 13$$

$$\lambda = 1$$

$$8 + 1(1) = 1$$

$$b = 9$$

$$b = 9$$

$$1 + \lambda = 1$$

$$12 + \lambda = 9$$

$$1 + \lambda = 9$$

$$2\lambda + \lambda = 9$$

$$3\lambda + \lambda = 9$$

$$\lambda = -2$$

$$(6 - 10 - 16)$$

$$(6 - 10 - 16)$$