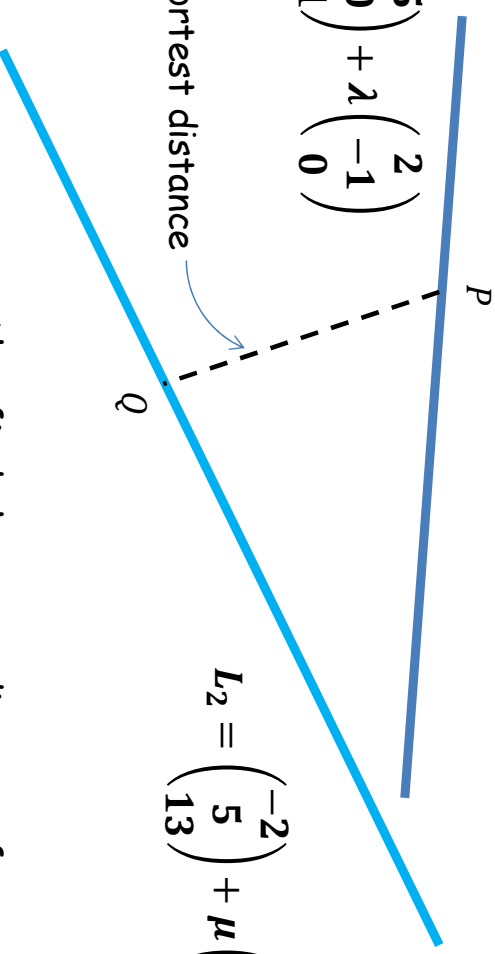


Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 5 \\ 0 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ -1 \\ 0 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} -2 \\ 5 \\ 13 \end{pmatrix} + \mu \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$$

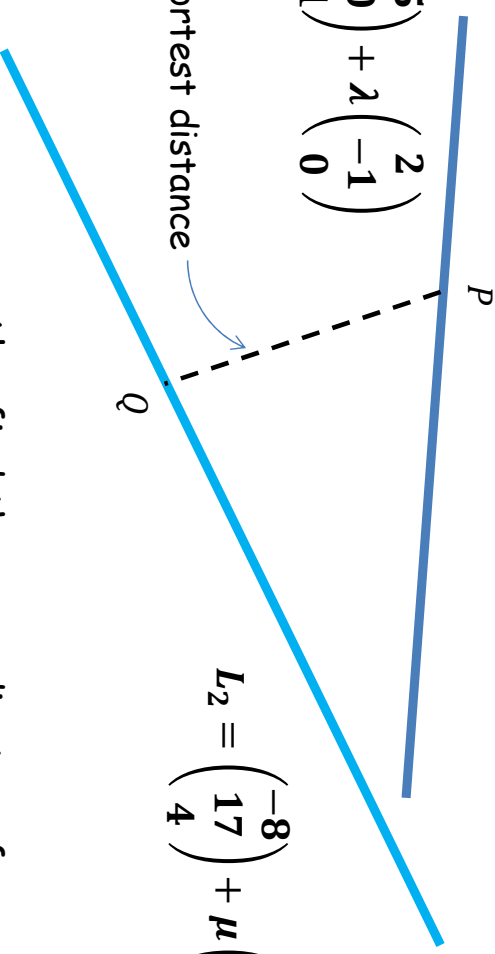
Also find the co-ordinates of P and Q .

SIC_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 5 \\ 0 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ -1 \\ 0 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} -8 \\ 17 \\ 4 \end{pmatrix} + \mu \begin{pmatrix} 4 \\ -3 \\ 1 \end{pmatrix}$$

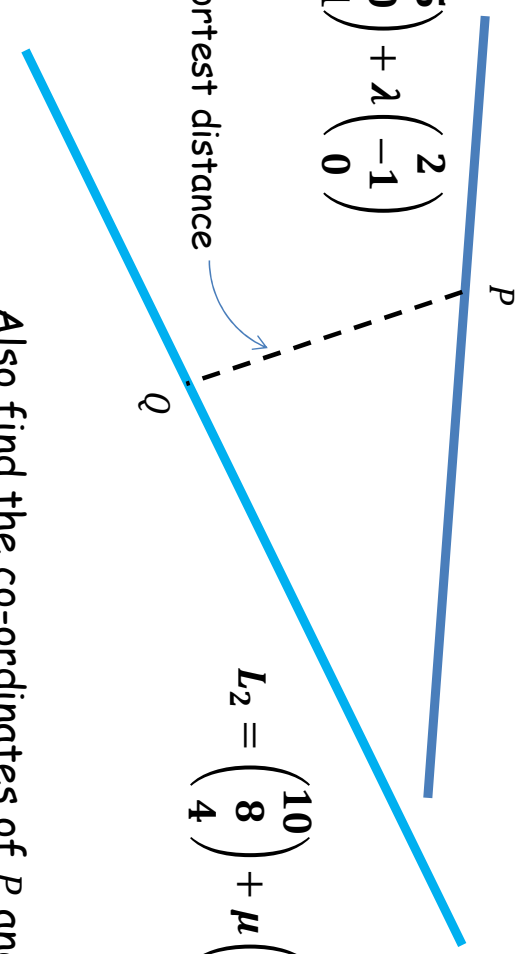
Also find the co-ordinates of P and Q .

SIC_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 5 \\ 0 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ -1 \\ 0 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} 10 \\ 8 \\ 4 \end{pmatrix} + \mu \begin{pmatrix} -2 \\ 0 \\ 1 \end{pmatrix}$$

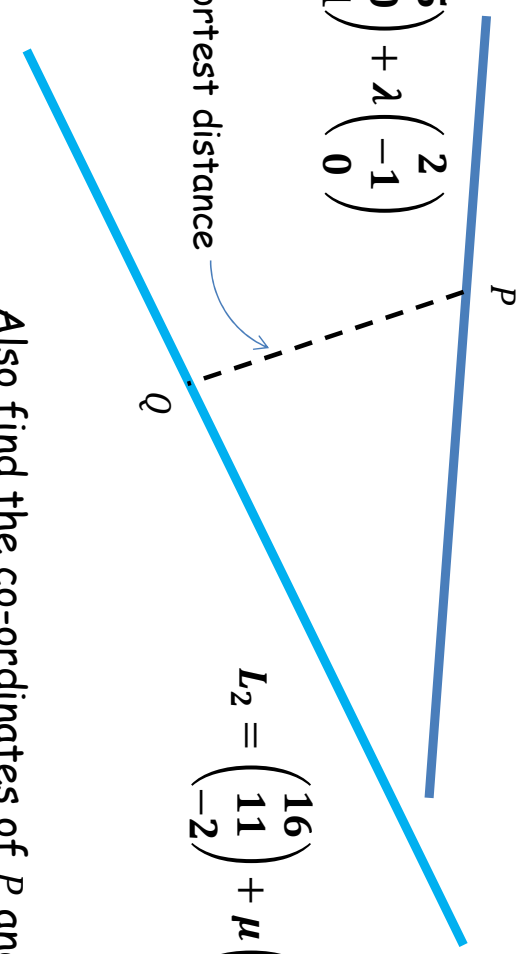
Also find the co-ordinates of P and Q .

SIC_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 5 \\ 0 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ -1 \\ 0 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} 16 \\ 11 \\ -2 \end{pmatrix} + \mu \begin{pmatrix} -4 \\ -1 \\ 3 \end{pmatrix}$$

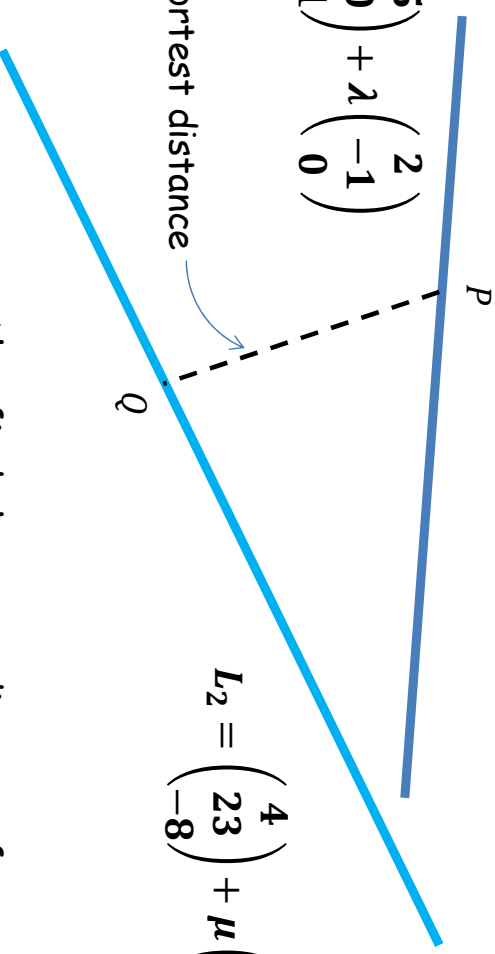
Also find the co-ordinates of P and Q .

SIC_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 5 \\ 0 \\ 1 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ -1 \\ 0 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} 4 \\ 23 \\ -8 \end{pmatrix} + \mu \begin{pmatrix} 0 \\ -5 \\ 5 \end{pmatrix}$$

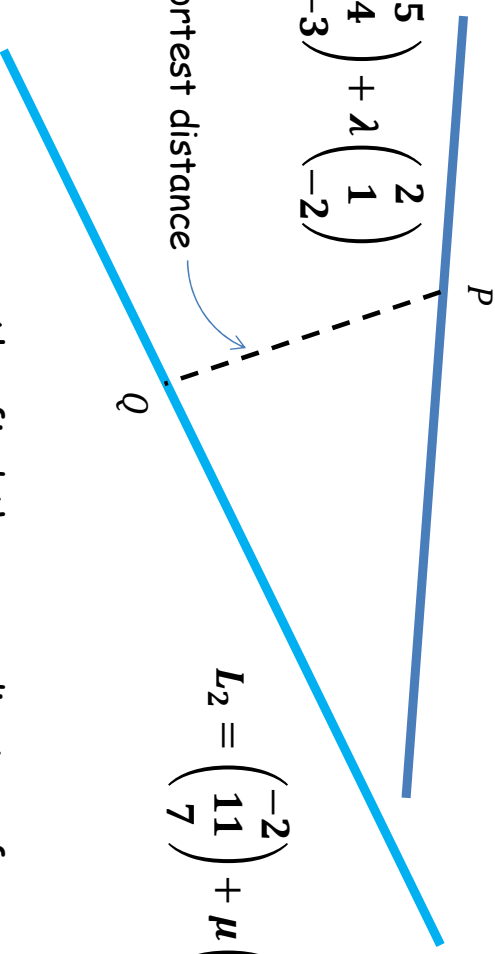
Also find the co-ordinates of P and Q .

SIC_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 5 \\ 4 \\ -3 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} -2 \\ 11 \\ 7 \end{pmatrix} + \mu \begin{pmatrix} 2 \\ -1 \\ 0 \end{pmatrix}$$

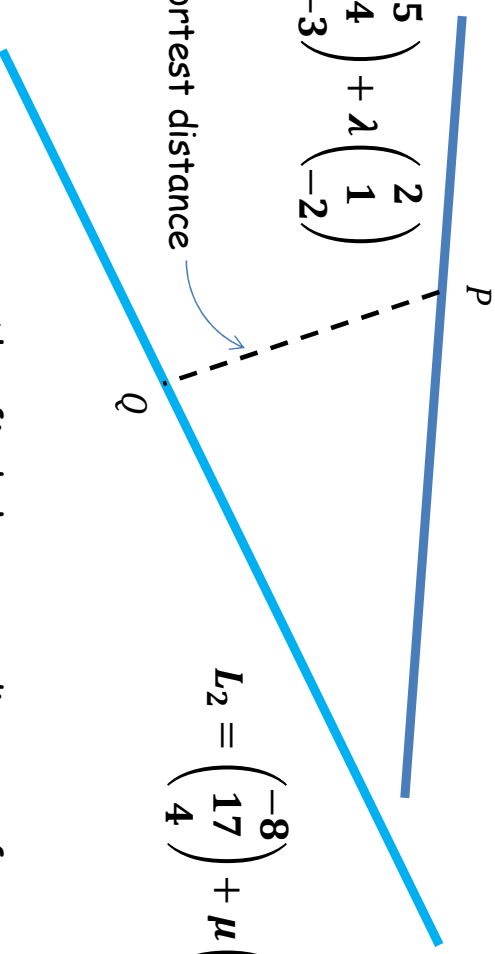
Also find the co-ordinates of P and Q .

SIC_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 5 \\ 4 \\ -3 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} -8 \\ 17 \\ 4 \end{pmatrix} + \mu \begin{pmatrix} 4 \\ -3 \\ 1 \end{pmatrix}$$

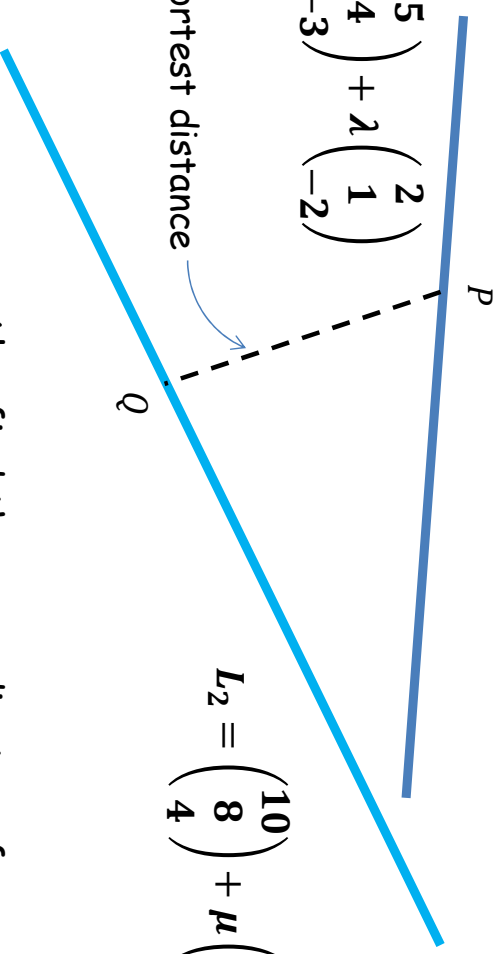
Also find the co-ordinates of P and Q .

S1C_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 5 \\ 4 \\ -3 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} 10 \\ 8 \\ 4 \end{pmatrix} + \mu \begin{pmatrix} -2 \\ 0 \\ 1 \end{pmatrix}$$

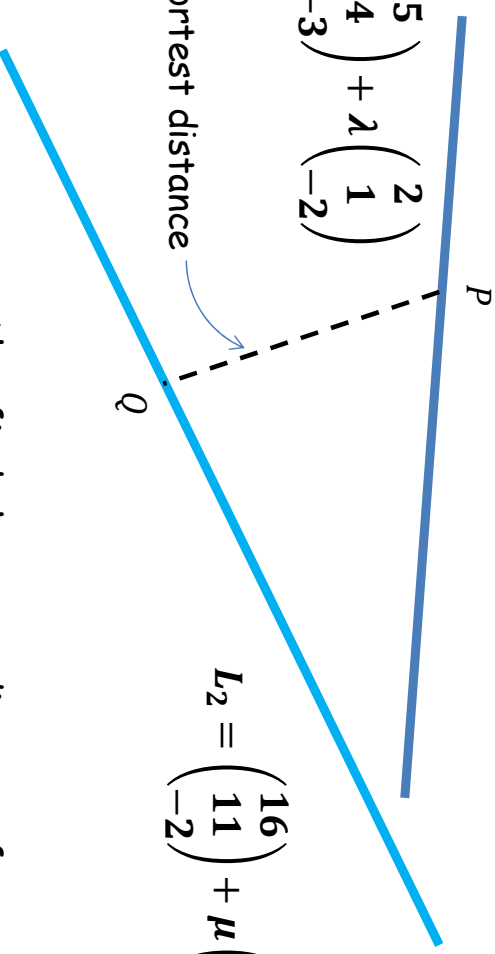
Also find the co-ordinates of P and Q .

S1C_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 5 \\ 4 \\ -3 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} 16 \\ 11 \\ -2 \end{pmatrix} + \mu \begin{pmatrix} -4 \\ -1 \\ 3 \end{pmatrix}$$

shortest distance

P

Q

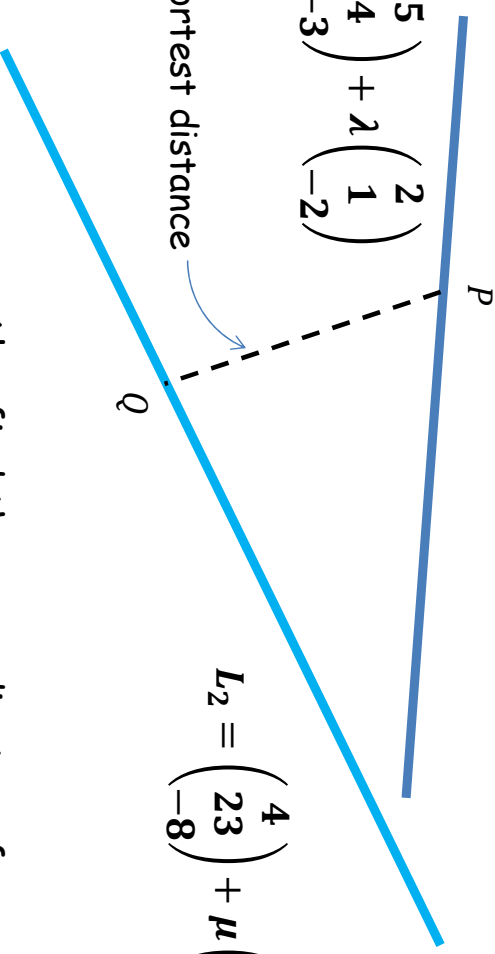
Also find the co-ordinates of P and Q .

SIC_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 5 \\ 4 \\ -3 \end{pmatrix} + \lambda \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} 4 \\ 23 \\ -8 \end{pmatrix} + \mu \begin{pmatrix} 0 \\ -5 \\ 5 \end{pmatrix}$$

shortest distance

P

Q

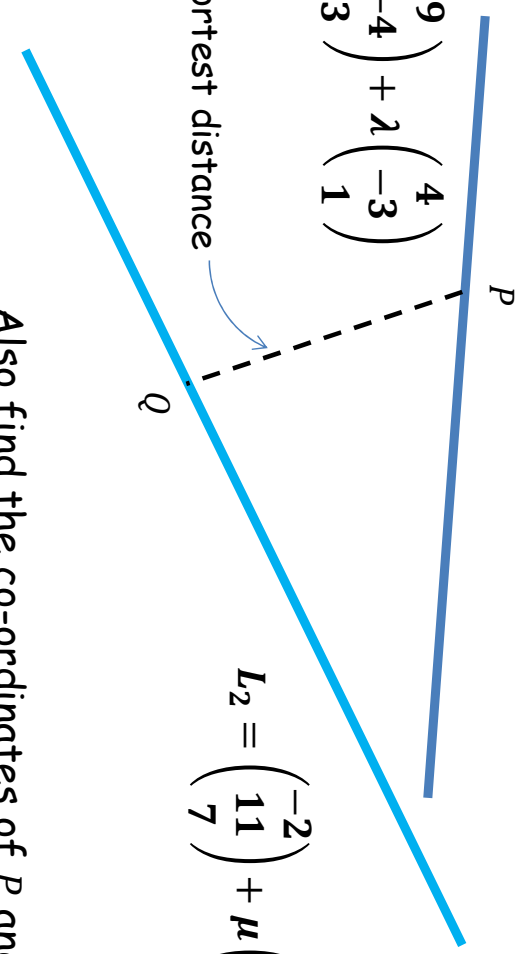
Also find the co-ordinates of P and Q .

SIC_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 9 \\ -4 \\ 3 \end{pmatrix} + \lambda \begin{pmatrix} 4 \\ -3 \\ 1 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} -2 \\ 11 \\ 7 \end{pmatrix} + \mu \begin{pmatrix} 2 \\ -1 \\ 0 \end{pmatrix}$$

shortest distance

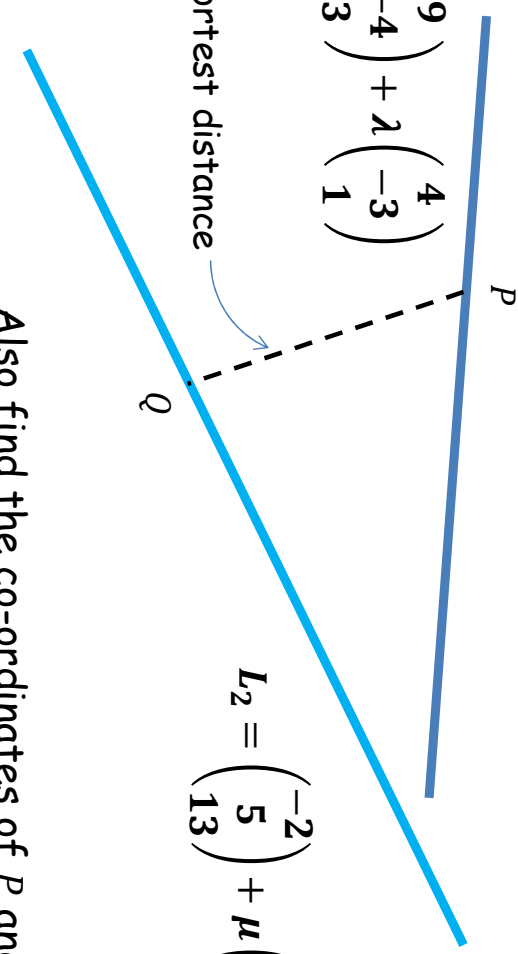
Also find the co-ordinates of P and Q .

S1C_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 9 \\ -4 \\ 3 \end{pmatrix} + \lambda \begin{pmatrix} 4 \\ -3 \\ 1 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} -2 \\ 5 \\ 13 \end{pmatrix} + \mu \begin{pmatrix} 2 \\ 1 \\ -2 \end{pmatrix}$$

shortest distance

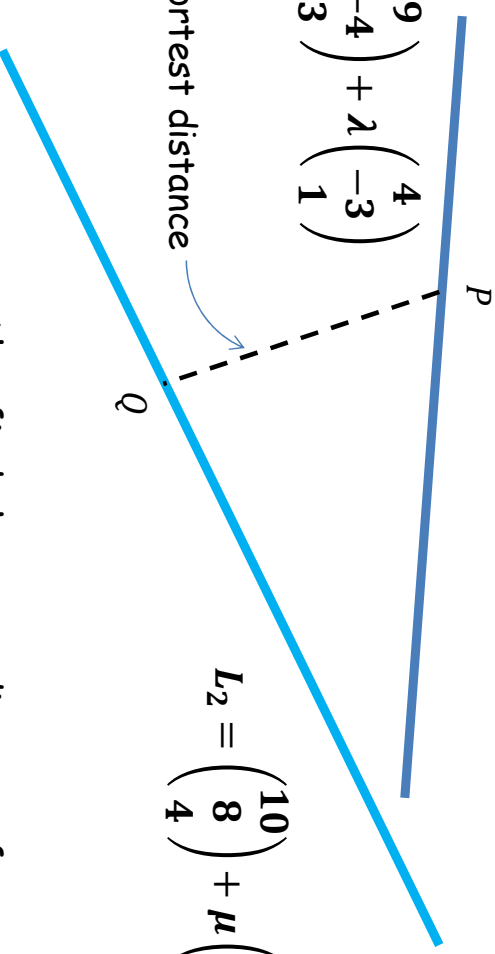
Also find the co-ordinates of P and Q .

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Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} 9 \\ -4 \\ 3 \end{pmatrix} + \lambda \begin{pmatrix} 4 \\ -3 \\ 1 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} 10 \\ 8 \\ 4 \end{pmatrix} + \mu \begin{pmatrix} -2 \\ 0 \\ 1 \end{pmatrix}$$

shortest distance

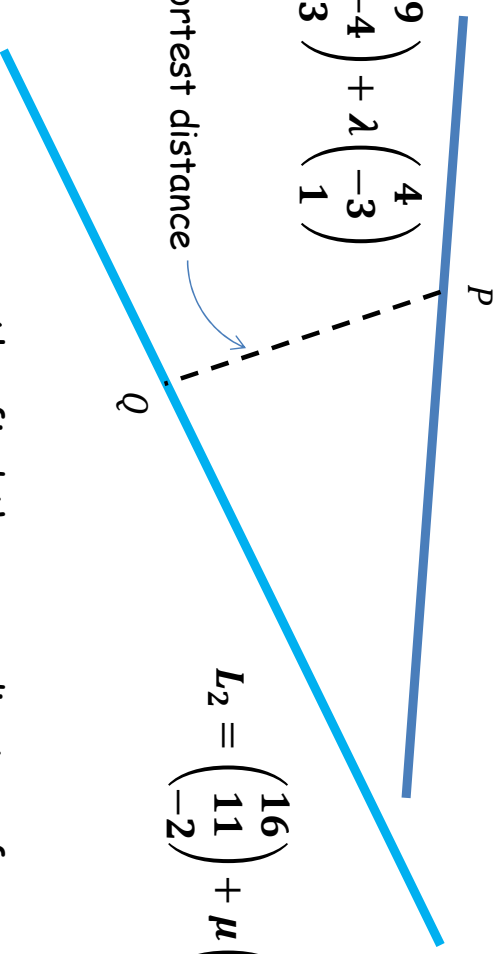
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shortest distance

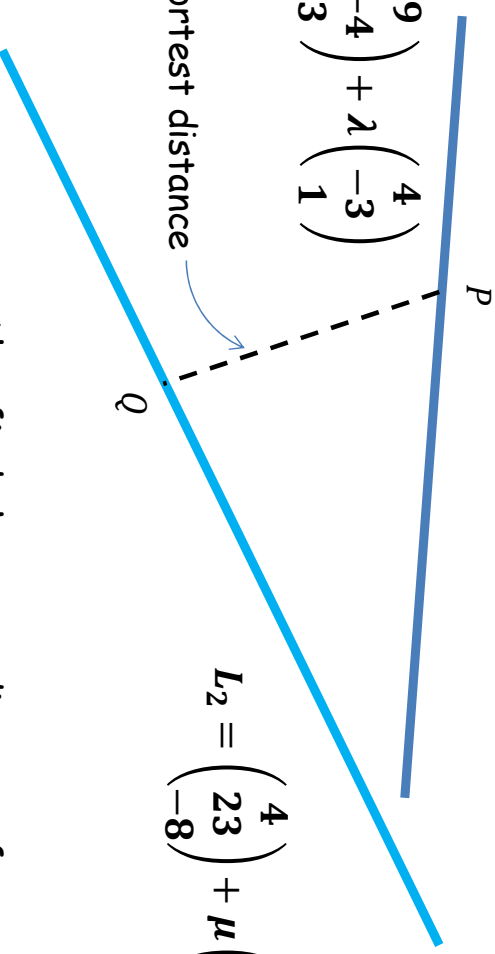
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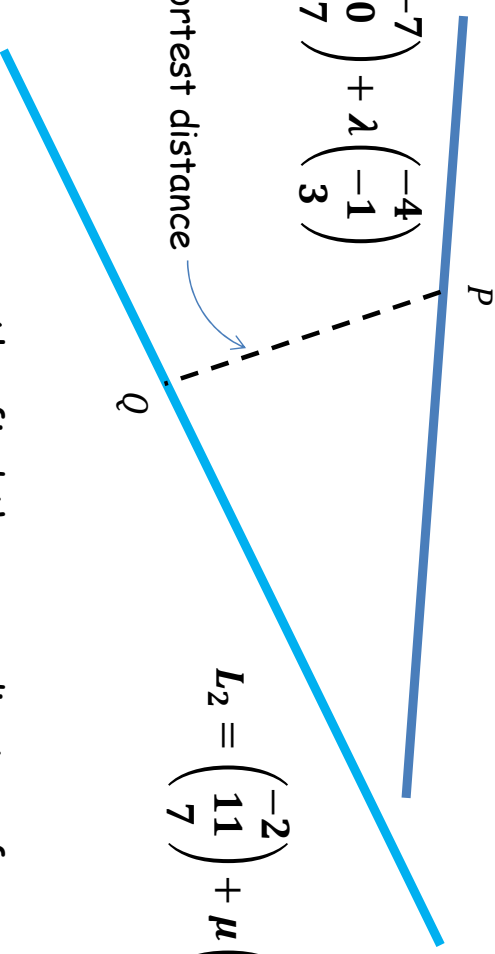
Also find the co-ordinates of P and Q .

S1C_27

Skew Lines

The two given lines given are skew (i.e they do not meet).

What is the shortest distance between them?


$$L_1 = \begin{pmatrix} -7 \\ 0 \\ 7 \end{pmatrix} + \lambda \begin{pmatrix} -4 \\ -1 \\ 3 \end{pmatrix}$$
$$L_2 = \begin{pmatrix} -2 \\ 11 \\ 7 \end{pmatrix} + \mu \begin{pmatrix} 2 \\ -1 \\ 0 \end{pmatrix}$$

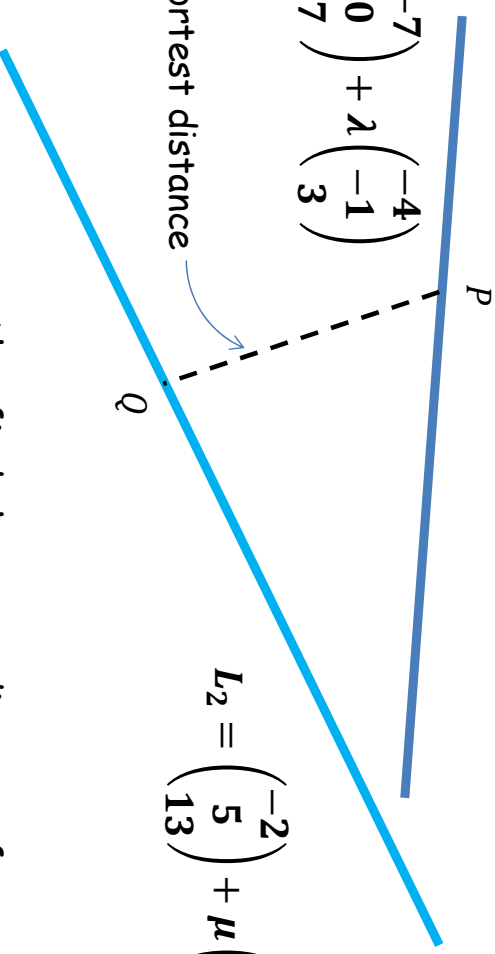
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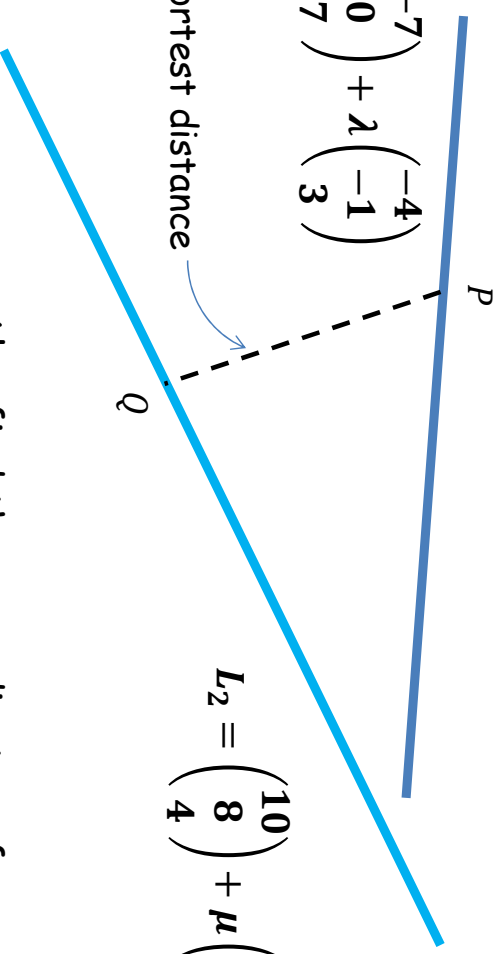
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$$L_2 = \begin{pmatrix} 10 \\ 8 \\ 4 \end{pmatrix} + \mu \begin{pmatrix} -2 \\ 0 \\ 1 \end{pmatrix}$$

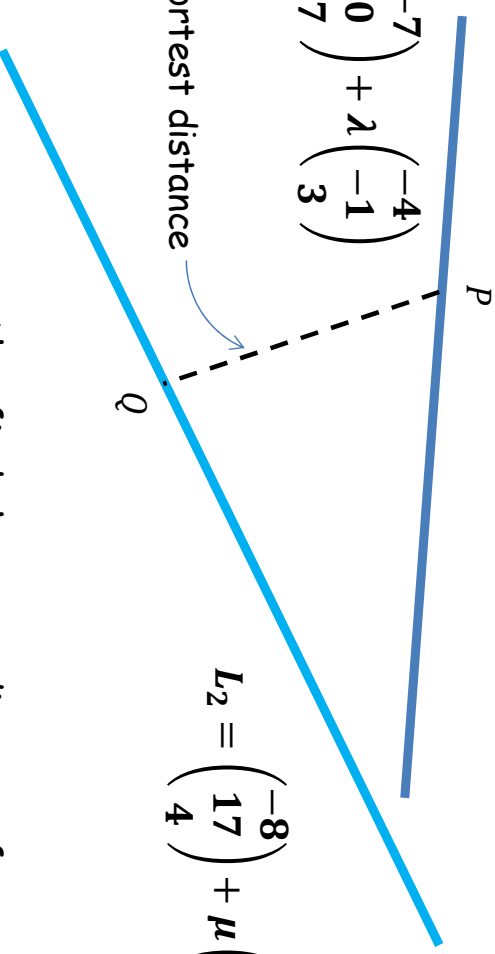
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shortest distance

P

Q

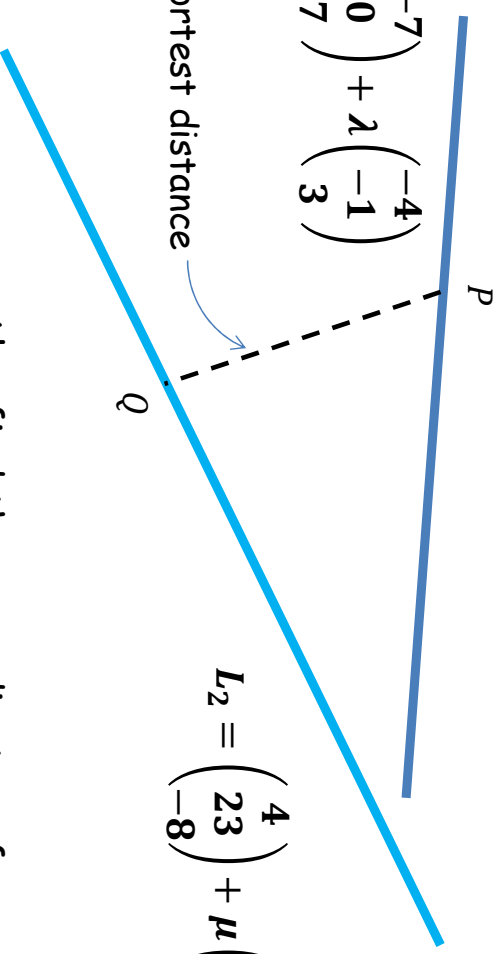
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$$L_2 = \begin{pmatrix} 4 \\ 23 \\ -8 \end{pmatrix} + \mu \begin{pmatrix} 0 \\ -5 \\ 5 \end{pmatrix}$$

shortest distance

P

Q

Also find the co-ordinates of P and Q .

S1C_27