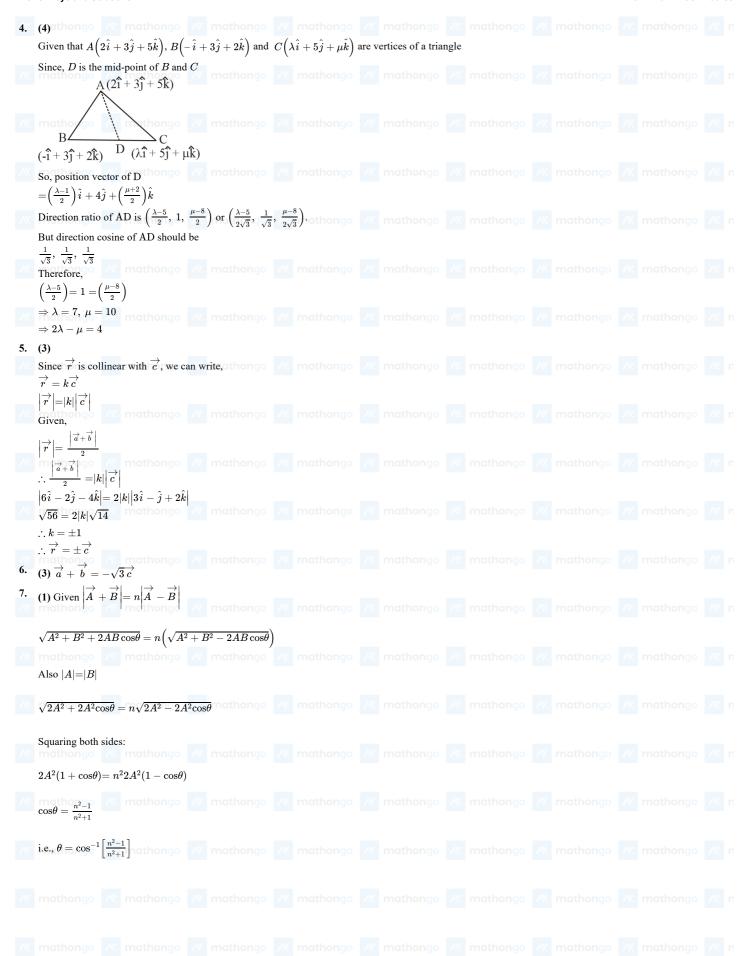


| | 2 (2) | 2 (2) | 4 745 | 7 (2) | | | 0.75 |
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| . (3) | 2. (3) | 3. (4) | 4. (4) | 5. (3) | 6. (3) | 7. (1) | 8. (4) ///. mathongo /// |
| . (3) | 10. (2) | | | | | | |
| . (3) | | | | | | | |
| Here, \overrightarrow{OA} : | $=2\hat{i}+3\hat{j}+4\hat{k}$ | | | | | | |
| \overrightarrow{OB} $=$ 3 \hat{i} - | $+4\hat{j}+2\hat{k}$ | | | | | | |
| And $\overrightarrow{OC} =$ | $=4\hat{i}+2\hat{j}+3\hat{k}$ | | | | | | |
| $\overrightarrow{AB} = \overrightarrow{AB}$ | | | | | | | |
| | - | | | | | | |
| $\overrightarrow{\overrightarrow{CA}}=2\hat{i}-$ | \hat{i} \hat{k} mathongo | | | | | | |
| | → | <u>-</u> | | | | | |
| // mathons | $ \overrightarrow{B} = \overrightarrow{BC} = \overrightarrow{CA} = \sqrt{6}$ | ///. mathongo | | | | | |
| So, these p | oints are vertices of a | n equilateral triangle. | | | | | |
| 2. (3) | → | | | | | | |
| | , | (i) // mathongo | | | | | |
| Let $\overrightarrow{\alpha} = x$ | | | | | | | |
| $\overrightarrow{lpha}=xig(6\hat{i}$ | $-3\hat{j}\Big)\!+\!y\Big(2\hat{i}\!-\!6\hat{j}\Big)$ | | | | | | |
| $\Rightarrow \overset{\rightarrow}{\alpha} = (6i$ | $(x+2y)\hat{i}$ – $(3x+6y)\hat{j}$ | $\dots (ii)$ | | | | | |
| From (i) & | | | | | | | |
| | | 12 ///. mathongo | | | | | |
| $\therefore x = 2,$ | y = -3 | | | | | | |
| $\therefore \alpha = 2 a$ | 3-3b mathona | | | | | | |
| . (4) | | | | | | | |
| | | | | | | | |
| We know, i | if \overrightarrow{P} is collinear with | \overrightarrow{Q} , then $\overrightarrow{P}=\overrightarrow{\beta Q}$, w | there β is a non-zero | scalar. | | | |
| We know, i Given, \overrightarrow{a} , | if \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three non- | \overrightarrow{Q} , then $\overrightarrow{P}=\overrightarrow{\beta Q}$, we zero vectors which are | where β is a non-zero re pairwise non-colling | scalar. near. mathongo | | | |
| We know, i Given, \overrightarrow{a} , Also, given | of \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three non- n $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear | \overrightarrow{Q} , then $\overrightarrow{P}=\overrightarrow{\beta Q}$, we zero vectors which an ar with \overrightarrow{c} and $\overrightarrow{b}+2\overrightarrow{c}$ | where β is a non-zero repairwise non-colling is collinear with | scalar. near. mathongo | | | |
| We know, i Given, \overrightarrow{a} , Also, given | of \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three non- n $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear | \overrightarrow{Q} , then $\overrightarrow{P}=\overrightarrow{\beta Q}$, we zero vectors which an ar with \overrightarrow{c} and $\overrightarrow{b}+2\overrightarrow{c}$ | where β is a non-zero repairwise non-colling is collinear with | scalar. near. mathongo | | | |
| We know, i Given, \overrightarrow{a} , Also, given | of \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three non- n $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear | \overrightarrow{Q} , then $\overrightarrow{P}=\overrightarrow{\beta Q}$, we zero vectors which an ar with \overrightarrow{c} and $\overrightarrow{b}+2\overrightarrow{c}$ | where β is a non-zero repairwise non-colling is collinear with | scalar. near. mathongo | | | |
| We know, i Given, \overrightarrow{a} , Also, given $\overrightarrow{a} + 3\overrightarrow{b}$ And $\overrightarrow{b} + 2$ where λ , μ | of \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three non- $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear $\overrightarrow{a} + 3\overrightarrow{c}$ (i) $\overrightarrow{a} = \overrightarrow{a} \cdot \overrightarrow{c} \cdot(ii)$ \overrightarrow{a} are non-zero scalars. | \overrightarrow{Q} , then $\overrightarrow{P} = \overrightarrow{\beta}\overrightarrow{Q}$, we zero vectors which an ar with \overrightarrow{c} and $\overrightarrow{b} + 2$ | where β is a non-zero repairwise non-colling is collinear with \overline{c} | scalar. near. mothongo | | | |
| We know, i Given, \overrightarrow{a} , Also, given $\overrightarrow{a} + 3\overrightarrow{b}$ And $\overrightarrow{b} + 2$ where λ , μ From equal | If \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three non- $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear $\overrightarrow{b} = \lambda \overrightarrow{c}$ (i) $2\overrightarrow{c} = \mu \overrightarrow{a}$ (ii) \overrightarrow{a} are non-zero scalars. tion (i) and (ii) | \overrightarrow{Q} , then $\overrightarrow{P} = \beta \overrightarrow{Q}$, we zero vectors which are with \overrightarrow{c} and $\overrightarrow{b} + 2$ | where β is a non-zero repairwise non-colling is collinear with \overline{c} | scalar. near. mothongo | | | |
| We know, i Given, \overrightarrow{a} , Also, giver $\overrightarrow{a} + 3\overrightarrow{b}$ And $\overrightarrow{b} + 2$ where λ , μ From equal $\overrightarrow{b} = \frac{\lambda}{3}$ | If \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three non- $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear $\overrightarrow{b} = \lambda \overrightarrow{c} \dots (i)$ $2\overrightarrow{c} = \mu \overrightarrow{a} \dots (ii)$ \overrightarrow{a} are non-zero scalars. $\overrightarrow{c} - \frac{1}{3}\overrightarrow{a} = -2\overrightarrow{c} + \frac{1}{3}\overrightarrow{a} = -2\overrightarrow{c} + \frac{1}{3}$ | \overrightarrow{Q} , then $\overrightarrow{P} = \beta \overrightarrow{Q}$, we zero vectors which are with \overrightarrow{c} and $\overrightarrow{b} + 2$ | where β is a non-zero repairwise non-colling is collinear with \overline{c} | scalar. near. mothongo | | | |
| We know, i Given, \overrightarrow{a} , Also, giver $\overrightarrow{a} + 3\overrightarrow{b}$ And $\overrightarrow{b} + 2$ where λ , μ From equal $\Rightarrow \overrightarrow{b} = \frac{\lambda}{3}$ $\Rightarrow \lambda = -6$ | If \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three non- $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear $\overrightarrow{c} = \lambda \overrightarrow{c} \dots (i)$ $2\overrightarrow{c} = \mu \overrightarrow{a} \dots (ii)$ \overrightarrow{a} are non-zero scalars. $\overrightarrow{c} - \frac{1}{3}\overrightarrow{a} = -2\overrightarrow{c} + \frac{1}{3}$ | \overrightarrow{Q} , then $\overrightarrow{P} = \beta \overrightarrow{Q}$, we zero vectors which an ar with \overrightarrow{c} and $\overrightarrow{b} + 2$ | where β is a non-zero repairwise non-colling is collinear with \overline{c} is collinear with \overline{c} mathongo | scalar. near. mothongo mothongo mothongo mothongo | | | |
| We know, i Given, \overrightarrow{a} , Also, given $\overrightarrow{a} + 3\overrightarrow{b}$ And $\overrightarrow{b} + 2$ where λ , μ From equal $\Rightarrow \overrightarrow{b} = \frac{\lambda}{3}$ $\Rightarrow \lambda = -6$ Put, $\lambda = -6$ | If \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three non- $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear $\overrightarrow{b} = \lambda \overrightarrow{c}$ (i) $2\overrightarrow{c} = \mu \overrightarrow{a}$ (ii) $a \text{ are non-zero scalars.}$ $tion (i) \text{ and } (ii)$ $\overrightarrow{c} - \frac{1}{3}\overrightarrow{a} = -2\overrightarrow{c} + \frac{1}{3}$ $6 \text{ in the equation } (i)$ | \overrightarrow{Q} , then $\overrightarrow{P} = \beta \overrightarrow{Q}$, we zero vectors which an ar with \overrightarrow{c} and $\overrightarrow{b} + 2$ | where β is a non-zero repairwise non-colling is collinear with \overline{c} is collinear with \overline{c} mathongo | scalar. near. mothongo mothongo mothongo mothongo | | | |
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| We know, i Given, \overrightarrow{a} , Also, given $\overrightarrow{a} + 3\overline{1}$ And $\overrightarrow{b} + 2$ where λ , μ From equal $\overrightarrow{b} = \frac{\lambda}{3}$ $\Rightarrow \lambda = -6$ Put, $\lambda = -6$ $\Rightarrow \overrightarrow{a} + 3\overline{1}$ | If \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three nonna $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear $\overrightarrow{b} = \lambda \overrightarrow{c} \dots (i)$ $2\overrightarrow{c} = \mu \overrightarrow{a} \dots (ii)$ a are non-zero scalars. It into (i) and $(ii)\overrightarrow{c} - \frac{1}{3}\overrightarrow{a} = -2\overrightarrow{c} + 3\overrightarrow{b} = -6\overrightarrow{c}$ | \overrightarrow{Q} , then $\overrightarrow{P} = \beta \overrightarrow{Q}$, we zero vectors which are with \overrightarrow{c} and $\overrightarrow{b} + 2\overrightarrow{c}$ mathongo $\mu \overrightarrow{a}$ mathongo | there β is a non-zero repairwise non-colling is collinear with \overline{c} is collinear with \overline{c} mathongo mathongo | scalar. mear. mathongo mathongo mathongo mathongo mathongo | | | |
| We know, i Given, \overrightarrow{a} , Also, given $\therefore \overrightarrow{a} + 3\overrightarrow{b}$ And $\overrightarrow{b} + 2$ where λ , μ From equal $\Rightarrow \overrightarrow{b} = \frac{\lambda}{3}$ $\Rightarrow \lambda = -6$ Put, $\lambda = -6$ $\Rightarrow \overrightarrow{a} + 3\overrightarrow{b}$ | If \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three nonna $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear $\overrightarrow{b} = \lambda \overrightarrow{c} \dots (i)$ $2\overrightarrow{c} = \mu \overrightarrow{a} \dots (ii)$ a are non-zero scalars. It into (i) and $(ii)\overrightarrow{c} - \frac{1}{3}\overrightarrow{a} = -2\overrightarrow{c} + 3\overrightarrow{b} = -6\overrightarrow{c}$ | \overrightarrow{Q} , then $\overrightarrow{P} = \beta \overrightarrow{Q}$, we zero vectors which are with \overrightarrow{c} and $\overrightarrow{b} + 2\overrightarrow{c}$ mathongo $\mu \overrightarrow{a}$ mathongo | there β is a non-zero repairwise non-colling is collinear with \overline{c} is collinear with \overline{c} mathongo mathongo | scalar. mear. mathongo mathongo mathongo mathongo mathongo | | | |
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| We know, i Given, \overrightarrow{a} , Also, given $\therefore \overrightarrow{a} + 3\overrightarrow{b}$ And $\overrightarrow{b} + 2\overrightarrow{a}$ where λ , μ From equal $\Rightarrow \overrightarrow{b} = \frac{\lambda}{3}$ $\Rightarrow \lambda = -6$ Put, $\lambda = -6$ Put, $\lambda = -6$ $\Rightarrow \overrightarrow{a} + 3\overrightarrow{b}$ | If \overrightarrow{P} is collinear with \overrightarrow{b} , \overrightarrow{c} are three non- in $\overrightarrow{a} + 3\overrightarrow{b}$ is collinear $\overrightarrow{b} = \lambda \overrightarrow{c} \dots (i)$ $2\overrightarrow{c} = \mu \overrightarrow{a} \dots (ii)$ is are non-zero scalars. Ition (i) and (ii) $\overrightarrow{c} - \frac{1}{3}\overrightarrow{a} = -2\overrightarrow{c} + -2\overrightarrow{c} + \frac{1}{3}\overrightarrow{a} = -2\overrightarrow{c} + -2c$ | \overrightarrow{Q} , then $\overrightarrow{P} = \beta \overrightarrow{Q}$, we zero vectors which are with \overrightarrow{c} and $\overrightarrow{b} + 2$ mathongo $\overrightarrow{\mu}$ mathongo $\overrightarrow{\mu}$ mathongo \overrightarrow{q} mathongo \overrightarrow{q} mathongo | there β is a non-zero repairwise non-colling is collinear with \overrightarrow{c} is collinear with \overrightarrow{c} mathongo mathongo mathongo | mathongo mathongo mathongo mathongo mathongo mathongo mathongo mathongo | | | |
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Answer Keys and Solutions





Answer Keys and Solutions

