represent the unit	vector due north.		
(a) Find the value	e of <b>a</b> .		
(b) Find the magn www.formular1maths.com	itude of the force <b>F</b> . www.formular1maths.com	www.formular1maths.com	www.formular1maths.co
			,
www.formular1maths.com	www.formular1maths.com	www.formular1maths.com	www.formular1maths.co
where <b>u</b> is a positiv	e constant.		
where <b>a</b> is a positiv	$oldsymbol{F_2}$ act on a particle. Give $oldsymbol{a}$ e constant.		
(a) Find the angle l			
-	between $F_2$ and $oldsymbol{i}$ .		
(a) Find the angle be The resultant of <b>F</b>	between $F_2$ and $oldsymbol{i}$ .	he value of <b>a</b> .	
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween $oldsymbol{F_2}$ and $oldsymbol{i}$ . $oldsymbol{a}$ and $oldsymbol{F_2}$ is $oldsymbol{R}$ .	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co
<ul><li>(a) Find the angle I</li><li>The resultant of F</li><li>(b) Given that R is</li></ul>	petween <b>F<sub>2</sub> and i.</b> <sub>1</sub> and <b>F<sub>2</sub> is R.</b> parallel 11 <b>i –</b> 10 <b>j</b> , find t	•	www.formular1maths.co

and $F_3 = {a \choose b} N$ , where $a$ and $b$ are constants. Given that $Q$ is in equilibrium,  (a) find the values of $a$ and $b$ .  (b) The force $F_1$ is now removed. The resultant of $F_2$ and $F_3$ is $R$ . Find:  (i) the magnitude of $R$ .  (ii) the angle, to the nearest degree, that the direction of $R$ makes with the horizontal. www.formular1maths.com www.formular1
(b) The force $\mathbf{F_1}$ is now removed. The resultant of $\mathbf{F_2}$ and $\mathbf{F_3}$ is $\mathbf{R}$ . Find:  (i) the magnitude of $\mathbf{R}$ .  (ii) the angle, to the nearest degree, that the direction of $\mathbf{R}$ makes with the horizontal.
(i) the magnitude of $R$ .  (ii) the angle, to the nearest degree, that the direction of $R$ makes with the horizontal.
(ii) the angle, to the nearest degree, that the direction of $m{R}$ makes with the horizontal.
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