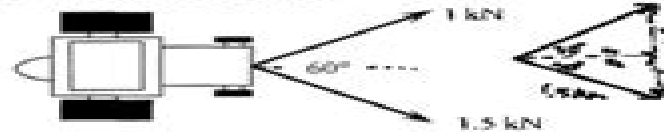


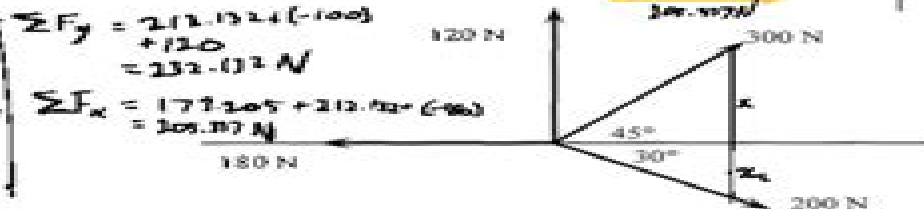
- 12) Find the resultant of the force systems shown below, as two people try to pull a lawn tractor out of mud.



$$\begin{aligned} F_x &= 1 \cos 60^\circ + 1.5 \cos 30^\circ \\ &= 0.5 + 1.299 \\ &= 1.799 \text{ kN} \\ F_y &= 1 \sin 60^\circ + 1.5 \sin 30^\circ \\ &= 0.866 + 0.75 \\ &= 1.616 \text{ kN} \\ R &= \sqrt{F_x^2 + F_y^2} \\ &= \sqrt{1.799^2 + 1.616^2} \\ &= 2.41 \text{ kN} \end{aligned}$$

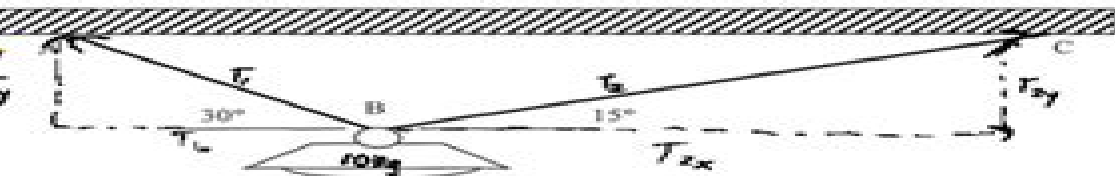
- 13) Find the resultant of the forces below.

$$\begin{aligned} \sum F_y &= 120 + 300 \sin 45^\circ - 200 \sin 30^\circ \\ &= 120 + 212.132 - 100 \\ &= 232.132 \text{ N} \\ \sum F_x &= 180 - 300 \cos 45^\circ + 200 \cos 30^\circ \\ &= 180 - 212.132 + 173.205 \\ &= 140.873 \text{ N} \end{aligned}$$

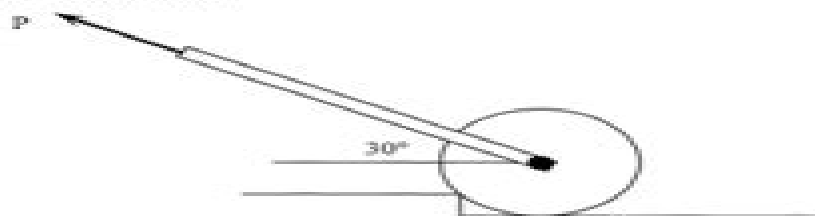


- 14) An old lamp hangs from a roof using wires as shown. What will be the tension in the cables to hold the 10 kg lamp there?

$$\begin{aligned} \sum T_x &= T_{2x} - T_{1x} \\ \sum F_y &= T_2 \sin 15^\circ + T_1 \sin 30^\circ - 100 \\ T_1 &= \frac{100 - T_2 \sin 15^\circ}{\sin 30^\circ} \\ T_1 &= 200 - 0.517 T_2 \\ T_2 &= 133.452 \text{ N} \end{aligned}$$



- 15) State the three force rule for the equilibrium of concurrent forces.
16) A 20 kg lawn roller is to be raised over a 100 mm high step. Find the force, P, required on the handle.



- 17) Find the vertical and horizontal components of a 500 N force acting up and to the right at 20° to the horizontal.



$$\begin{aligned} F_x &= 500 \cos 20^\circ \\ &= 470 \text{ N} \\ F_y &= 500 \sin 20^\circ \\ &= 171.01 \text{ N} \end{aligned}$$

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Industrial Engineering and the Engineering Digest ,1907 *Win or Learn* John Kavanagh,2016-06-30

Conor McGregor's trainer tells the amazing story of his long road to success in the world's fastest growing sport. Growing up in Dublin, John Kavanagh was a skinny lad who was frequently bullied. As a young man, after suffering a bad beating when he intervened to help a woman who was being attacked, he decided he had to learn to defend himself. Before long, he was training fighters in a tiny shed and promoting the earliest mixed martial arts events in Ireland. And then a cocky kid called Conor McGregor walked into his gym. In *Win or Learn*, John Kavanagh tells his own remarkable life story, which is at the heart of the story of the extraordinary explosion of MMA in Ireland and globally. Employing the motto "win or learn," Kavanagh has become a guru to young men and women seeking to master the arts of combat. And as the trainer of the world's most charismatic champion, his gym has become a magnet for talented fighters from all over the globe. Kavanagh's portrait of Conor McGregor, who he has seen in his lowest moments as well as in his greatest triumphs, is a revelation. What emerges from *Win or Learn* is a remarkable portrait of ambition, discipline, and persistence in the face of years and years of disappointment. It is a must-read for every MMA fan but also for anyone who wants to understand how to follow a dream and realize a vision. For anyone interested in following their dream to the end of the line, Tony Parsons' *It kept me up well past my bedtime*, Sean O'Rourke's *RTE Radio One Remarkable*, Irish Times' *Kavanagh is open and honest about his upbringing*, *The journey hasn't been easy but Kavanagh's inbuilt determination has carried him all the way*, Irish Examiner's **International Steam Engineer** ,1925 *Correspondence Education* Edgar Paul Hermann,1921 **Report of the Committee on Indian Students, 1921-22** ... Great Britain. India Office. Committee on Indian Students, Great Britain. Indian Students Committee,1922 **Innovative Technology-based Solutions for Primary, Secondary and Tertiary STEM Education** Cristina Hava Muntean, Diana Bogusevski, Gabriel-Miro Muntean ,2019-09-23. This book presents innovative technology-enhanced learning solutions for STEM education proposed by the EU Horizon 2020-funded NEWTON project by first highlighting the benefits and limitations of existing research, work e-learning systems, and case studies that embedded technology in the teaching and learning process. NEWTON's proposed innovative technologies and pedagogies include adaptive multimedia and multiple sensorial media, virtual reality, fabrication and virtual labs, gamification, personalisation, game-based learning, and self-directed learning pedagogies. The main objectives are to encourage STEM education among younger generations and to attract students to STEM subjects, making these subjects more appealing and interesting. Real-life deployment of NEWTON technologies and developed educational materials in over 20 European educational institutions at primary, secondary, and tertiary levels demonstrated statistically significant increases in terms of learner satisfaction, learner

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