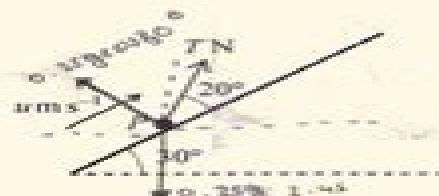


- 1 Three horizontal forces, acting at a single point, have magnitudes 12 N, 14 N and 5 N and act along bearings 000° , 090° and 270° respectively. Find the magnitude and bearing of their resultant. [5] (4)
- 2 A particle P moves in a straight line. The displacement of P from a fixed point on the line is $(t^4 - 2t^3 + 5)$ m, where t is the time in seconds. Show that, when $t = 1.5$,
 (i) P is at instantaneous rest, [3]
 (ii) the acceleration of P is 9 m s^{-2} . [3]

3



A particle P of mass 0.25 kg moves upwards with constant speed $u \text{ m s}^{-1}$ along a line of greatest slope on a smooth plane inclined at 30° to the horizontal. The pulling force acting on P has magnitude $T \text{ N}$ and acts at an angle of 20° to the line of greatest slope (see diagram). Calculate

- (i) the value of T , [3]
 (ii) the magnitude of the contact force exerted on P by the plane. [3]

The pulling force $T \text{ N}$ acting on P is suddenly removed, and P comes to instantaneous rest 0.4 s later.

- (iii) Calculate u . [4]

- 4 The acceleration of a particle P moving in a straight line is $(t^2 - 9t + 18) \text{ m s}^{-2}$, where t is the time in seconds.
 (i) Find the values of t for which the acceleration is zero. [2]
 (ii) It is given that when $t = 3$ the velocity of P is 9 m s^{-1} . Find the velocity of P when $t = 0$. [4]
 (iii) Show that the direction of motion of P changes before $t = 1$. [2]

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Janet Crawshaw, Janet Dangerfield

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author names.

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