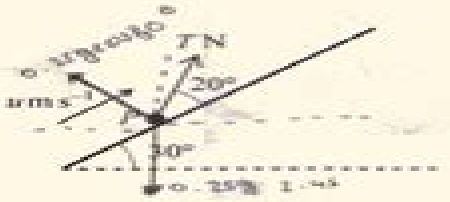
1 Three horizontal forces, acting at a single point, have magnitudes 12 N, 14 N and 5 N and act along bearings 000°, 090° and 270° respectively. Find the magnitude and bearing of their resultant. [5]

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 $9\,\text{m s}^{-2}$. [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 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 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 $9\,\text{m s}^{-1}$. 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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