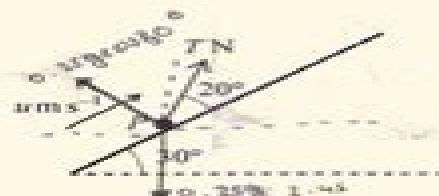


- 1 Three horizontal forces, acting at a single point, have magnitudes 12 N, 14 N and 5 N and act along bearings  $000^\circ$ ,  $090^\circ$  and  $270^\circ$  respectively. Find the magnitude and bearing of their resultant. [5] 4
- 2 A particle  $P$  moves in a straight line. The displacement of  $P$  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  $9 \text{ m s}^{-2}$ . [3]

3



A particle  $P$  of mass  $0.25 \text{ kg}$  moves upwards with constant speed  $u \text{ m s}^{-1}$  along a line of greatest slope on a smooth plane inclined at  $30^\circ$  to the horizontal. The pulling force acting on  $P$  has magnitude  $T \text{ N}$  and acts at an angle of  $20^\circ$  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  $0.4 \text{ s}$  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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**RS Peters**



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