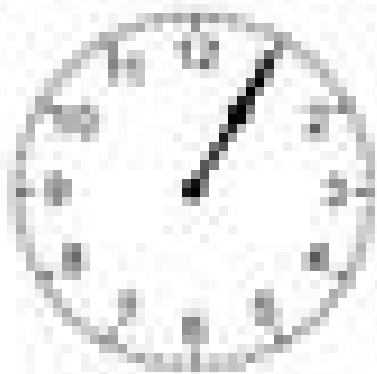
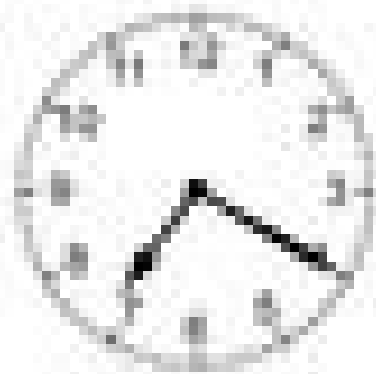


**PROBLEM 1. THE CLOCK HANDS AND THE SQUARE OF THEIR SUMS OF THE SINES OF**

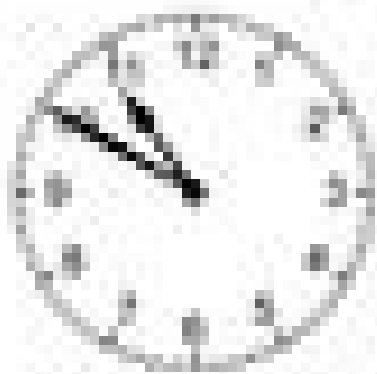
**1.**



**2.**



**3.**



**4.**



**1.** Each minute the hour hand of a clock is made to move 25 minutes further than the clock/minute hand. The hour and minute hands coincide the day for several consecutive days.

**2.** In a clock the hour hand is fixed at 12 and the minute hand moves with an angular velocity 15 times that of the hour hand. The angle between the hands will be 90 degrees only after the hands of the clock have moved through

