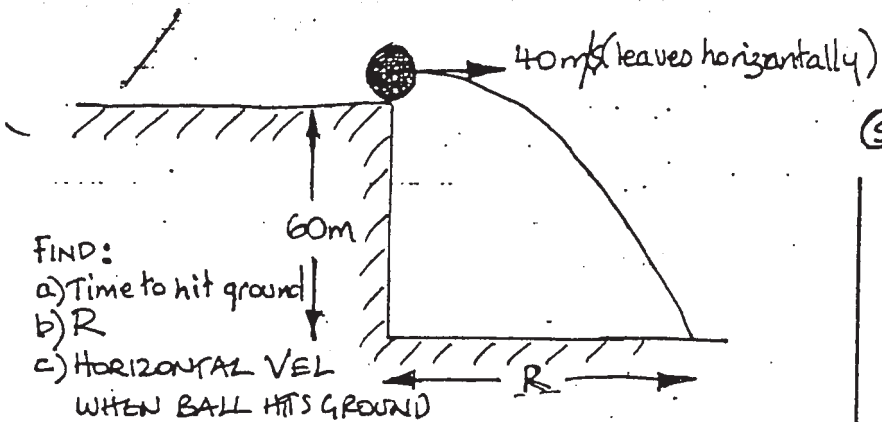
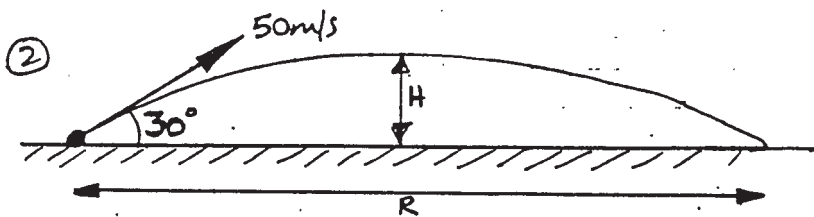


AP PHYSICS PRACTICE

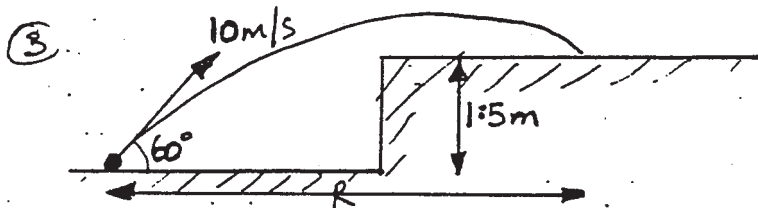
NAME: _____



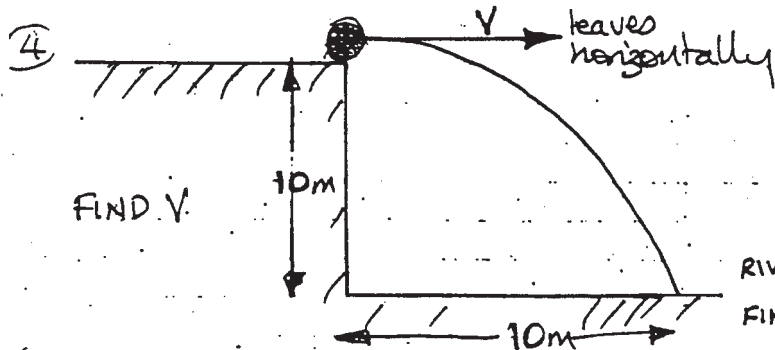
- FIND:
- Time to hit ground
 - R
 - HORIZONTAL VEL WHEN BALL HITS GROUND
 - VERTICAL VEL WHEN BALL HITS GROUND
 - SPEED WHEN BALL HITS GROUND.



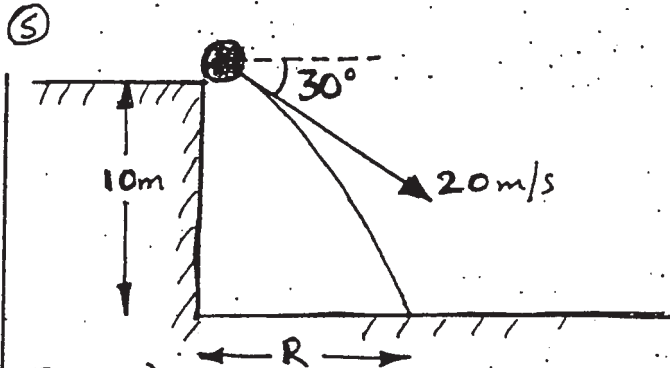
- FIND
- TOTAL TIME IN FLIGHT
 - H
 - R
 - HORIZONTAL VELOCITY WHEN IT HITS GROUND
 - VERTICAL VELOCITY WHEN IT HITS GROUND
 - SPEED WHEN IT HITS GROUND.



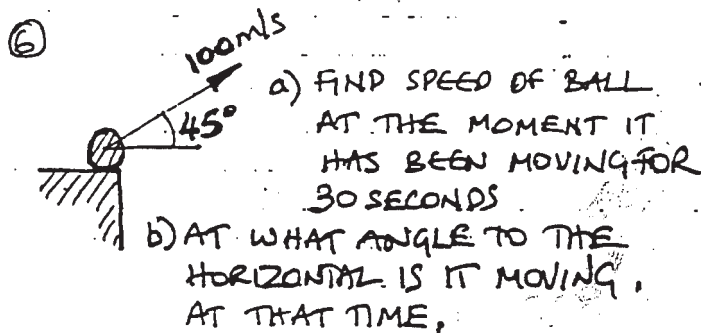
- FIND
- R
 - TOTAL TIME IN AIR
 - SPEED IT HITS THE GROUND.



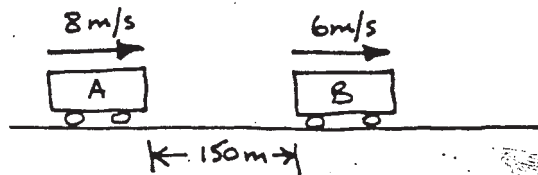
FIND V.



- FIND
- TOTAL TIME FOR TRIP
 - R
 - SPEED BALL HITS GROUND



$g = 9.8 \text{ m/s}^2$
air resistance = 0



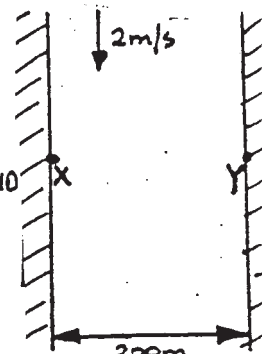
A COW HAS A VELOCITY OF 0.5 m/s. 5 SECONDS LATER IT HAS A VELOCITY OF 1.5 m/s. FIND THE MINIMUM DISTANCE IT HAS MOVED.

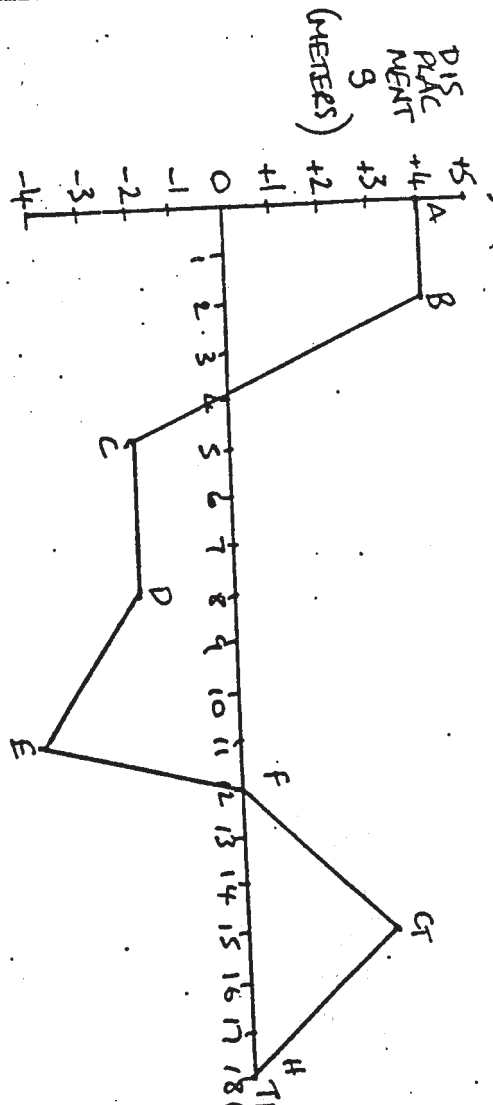
RIVER FLOWS SOUTH AT 2 m/s.

FIND a) MIN SPEED SWIMMER MUST HAVE TO GET TO Y FROM X

b) IF SPEED OF SWIMMER IS 4 m/s, FIND MIN. TIME TO REACH Y FROM X

c) AT WHAT ANGLE TO LINE XY IS SHE SWIMMING IN PART b OF

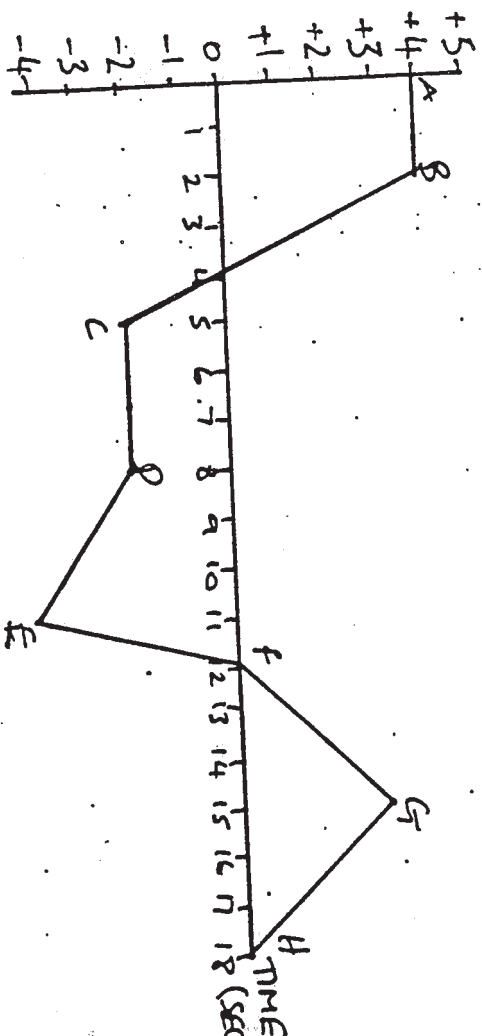




FIND....

1. MAXIMUM DISPLACEMENT
2. MINIMUM DISPLACEMENT
3. TOTAL TIME THE THING WAS STATIONARY
4. TOTAL CHANGE IN DISPLACEMENT
5. TOTAL DISTANCE MOVED
6. VELOCITY AT AB
7. VELOCITY DURING BC
8. VELOCITY DURING FG
9. MAX VELOCITY DURING WHOLE JOURNEY
10. MIN VELOCITY DURING "JOURNEY"
11. MAX SPEED DURING WHOLE JOURNEY
12. MIN SPEED DURING WHOLE JOURNEY
13. AV. VELOCITY OVER WHOLE JOURNEY
14. AV. SPEED OVER WHOLE JOURNEY

VELOCITY (m/s)



FIND....

1. TOTAL TIME THAT THING WAS STATIONARY
2. MAXIMUM SPEED OVER AH
3. ACCELERATION DURING CD
4. ACCELERATION DURING DE
5. ACCELERATION DURING FG
6. MAX. ACCN
7. MIN ACCN
8. TOTAL CHANGE IN DISPLACEMENT DURING
9. " " " " " "
10. " " " " " "
11. AV. VELOCITY OVER AD
12. AV. ACCN OVER WHOLE JOURNEY
13. MINIMUM SPEED OVER AH
14. MINIMUM VELOCITY OVER AH