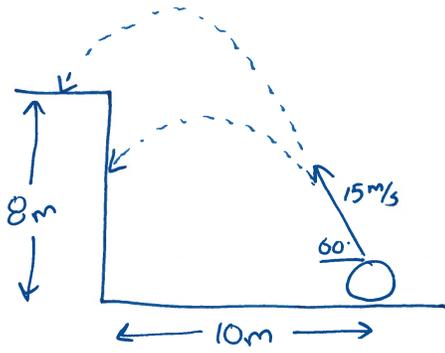**Q1:**

8 m

10 m

15 m/s

60°
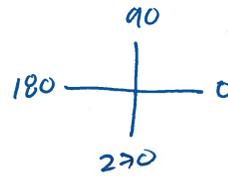
Will the ball land on top of the ledge?

Q2:

10 m/s

60°

90

180 —————— 0
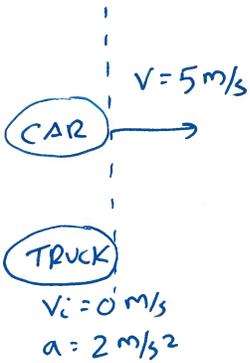
270
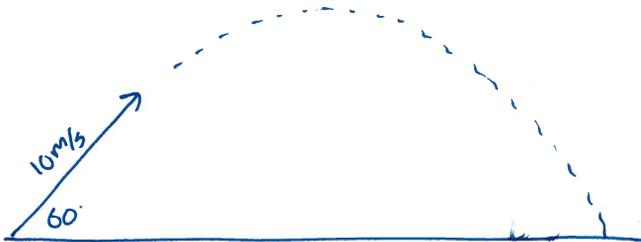
What is the velocity after 1.0 seconds? Write your answer as a vector.

Q3:

20 m/s
30°
6m
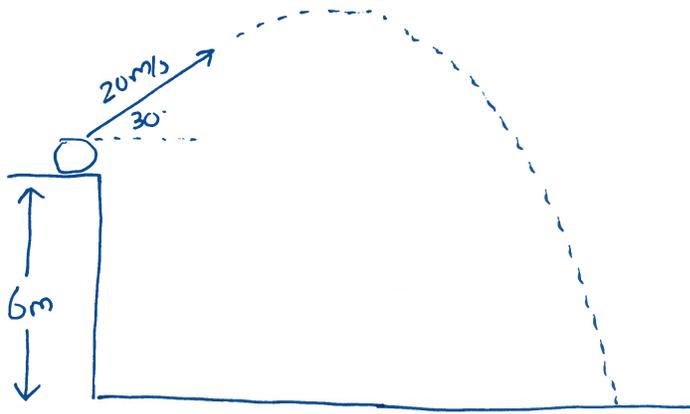
How fast is the object moving when it hits the ground?

Q4:

V = 5 m/s

CAR →

TRUCK
$V_i = 0$ m/s
$a = 2$ m/s²

At what time will the truck catch the car?