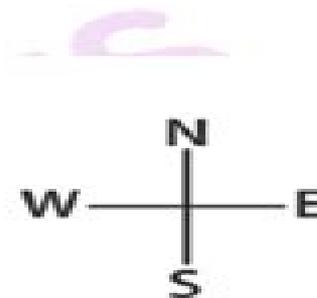


## JEE Main Previous Year Solved Questions on Kinematics 2D

**Q1:** A river is flowing from west to east at a speed of 5 metres per minute. A man on the south bank of the river, capable of swimming at 10 metres per minute in still water, wants to swim across the river in the shortest time. He should swim in a direction.

1. due north
2.  $30^\circ$  east of north
3.  $30^\circ$  west of north
4.  $60^\circ$  east of north

**Solution:**



Let the time taken to cross the river be  $t$

$$t = \frac{d}{V_s \cos \theta}$$

For the time  $t$  to be minimum,  $\cos \theta$  should be maximum

$\theta$  should be  $0$

Therefore swimmer should swim due north

**Answer: (1) due north**

**Q2:** A particle  $P$  is sliding down a frictionless hemispherical bowl. It passes point  $A$  at  $t = 0$ . At this instant of time, the horizontal component of its velocity is  $v$ . A bead  $Q$  of the same mass as  $P$  is ejected from  $A$  at  $t = 0$  along the horizontal string  $AB$ , with speed  $v$ . Friction between the bead and the string may be neglected. Let  $t_p$  and  $t_q$  be the respective times taken by  $P$  and  $Q$  to reach point  $B$ .

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**Zhe Xu**

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