

NEET	Class - 11 th	Topic - Projectile_Motion
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1. A particle is projected at an angle θ with the horizontal. The range of the projectile is maximum when θ is:
(a) 30° (b) 45°
(c) 60° (d) 90°
2. A projectile is fired at 60° with horizontal. If the range is R , what will be the range if projected at 30° with same speed?
(a) $R/2$ (b) R
(c) $\sqrt{2}\cdot R$ (d) $2R$
3. The time of flight of a projectile is doubled when:
(a) Speed is doubled (b) Angle is doubled
(c) $\sin\theta$ is doubled (d) $\sin\theta$ is halved
4. What is the trajectory of a projectile in ideal conditions?
(a) Circle (b) Straight line
(c) Parabola (d) Hyperbola
5. A projectile reaches maximum height in 2 s. Total time of flight is:
(a) 1 s (b) 2 s
(c) 3 s (d) 4 s
6. For a given initial velocity, the range is maximum when the angle of projection is:
(a) 30° (b) 60°
(c) 45° (d) 90°
7. A body is projected at an angle of 60° with the horizontal. What is the ratio of time of ascent to the time of descent?
(a) 1:1 (b) 2:1
(c) 1:2 (d) None

8. If the maximum height and range of a projectile are same, the angle of projection is:
- (a) 30° (b) 60°
(c) 45° (d) 76°
9. A projectile is fired horizontally. What is the vertical component of velocity at projection?
- (a) u (b) 0
(c) $u \sin\theta$ (d) g
10. A stone is thrown with velocity u at angle θ . The maximum height reached is proportional to:
- (a) u^2 (b) $u^2 \sin^2\theta$
(c) $\sin\theta$ (d) $\cos\theta$