

Wake turbulence

- 1 A heavy aircraft is taking off on Runway 27 and you are in a light aircraft taking off on Runway 03. The heavy rotates after the intersection of runway 03. How long must you wait due to wake turbulence?
 - a) No waiting required
 - b) 2 minutes
 - c) 3 minutes
 - d) 6 minutes

- 2 A Boeing 747 takes off and rotates 4,200 feet from the threshold. You enter the runway and will take off rotating 2,200 feet from the threshold. Are you safe to take off ?
 - a) yes
 - b) no because of Wake turbulence
 - c) no because of Thrust stream turbulence
 - d) depends on wind direction

- 3 A heavy aircraft does a go around on Runway 25. You are waiting to take off on Runway 30. The heavy initiates the go around 1,000 feet from the intersection and is at 1,000 feet as it passes over the runway intersection. What is the required waiting period ?
 - a) no waiting required
 - b) 2 min
 - c) 3 min
 - d) 9 min

- 4 Wake turbulence behind the generating aircraft will descend to approximately 1000 feet below and spread out to approximately
 - a) 1 wingspan in height and a space of 4 wingspans between vortices
 - b) 1 wingspan in height and 3 wingspans in total width
 - c) 1 wingspan in height and 2 wingspans between vortices
 - d) 4 wingspans in total width and 2 wingspans in height

Answers

1.a 2.a 3.c 4.c