

- 1- For a radar array with element spacing $d=\lambda/2$, what is the largest angular field of view (FoV) it can achieve?
 - A) $\pm 45^\circ$
 - B) $\pm 60^\circ$
 - C) $\pm 90^\circ$
 - D) $\pm 120^\circ$

- 2- The angular resolution for a uniform linear array (ULA) with spacing $d = \frac{\lambda}{2}$ and N_{VA} virtual elements, and bandwidth B is given by:
 - A) $\frac{\lambda}{2BN_{VA}}$
 - B) $\frac{\lambda}{2N_{VA}}$
 - C) $\frac{2}{BN_{VA}}$
 - D) $\frac{2}{N_{VA}}$

- 3- The best angular resolution for a ULA is achieved at boresight $\theta = 0^\circ$.
 - A) True
 - B) False

- 4- How does increasing the aperture size of a radar antenna affect its angular resolution?
 - A) It decreases the angular resolution (worse resolution)
 - B) It increases the angular resolution (better resolution)
 - C) It has no effect on angular resolution
 - D) It only affects the range resolution, not angular resolution