

DLOC Precursor IC 5.3: Practice Exercise #4

Directions: Choose the lettered answer that best completes the question. There is only one correct answer for each question unless indicated otherwise.

1. The WSR-88D radar operates with _____ pulse duration(s).
 - a. 1
 - b. 2
 - c. 3
 - d. 4

2. If $R_{\max} = 250$ nm and a target **actually** located at 275 nm was detected by the WSR-88D, the target would be displayed at _____ nm range on a 248 nm range Base Reflectivity Product?
 - a. 25
 - b. 27
 - c. 248
 - d. 275

3. Assume a WSR-88D radar samples a target with one short pulse (1.57 μsec) and then samples the same target with one long pulse (4.7 μsec). _____ times as much power would be returned to the radar from the long pulse. The WSR-88D can detect the same target at greater range when it transmits _____ pulses instead of _____ pulses.
 - a. 1/3; short, long
 - b. 1/3; long, short
 - c. 3; short, long
 - d. 3; long, short