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Radar Systems

9/26/17

1.
 - a. 90 Positions
 - b. $T_{ad}=0.011$ seconds
 - c. 1 second
2.
 - a. $2/3$
 - i. $P_D = 84\%$
 - ii. $P_{FA} = 7.5 \cdot 10^{-5}$
 - b. $2/4$
 - i. $P_D = 95\%$
 - ii. $P_{FA} = 1.5 \cdot 10^{-4}$
3. A
 - a. PDF
 - i. $50\% = 0.0332$
 - ii. $75\% = 0.094$
 - iii. $95\% = 0.1311$
 - b. CDF
 - i. $50\% = 0.9522$
 - ii. $75\% = 0.996$
 - iii. $95\% = 1.000$



