1. Using the RADAR distance equation, if a signal returns after 573.3 μsec, how far away is the detected object?

$$R = \boxed{86 \text{ km}}$$

2. During an exercise, a UAS is used to gather information on the red forces. The red team has deployed a mobile RADAR unit and the signal from the RADAR takes 133.3 us to return. How far away is the UAS?

$$R = \boxed{20.0 \text{ km}}$$