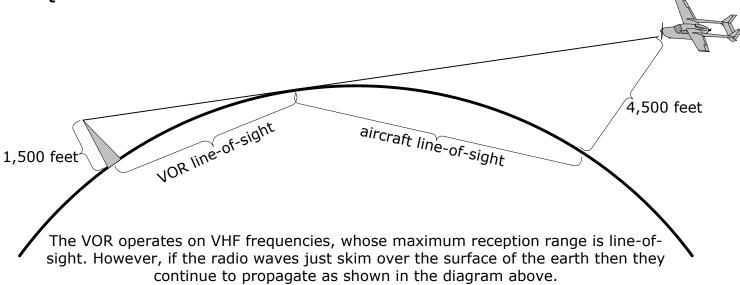
Instrument Rating Exam Prep. Guide

VOR Question 3



This means that you need to calculate the maximum line-of-sight distance from the VOR, and add to it the maximum line-of-sight distance from the aircraft (using the normal formula). This is shown below;

VOR line of sight =
$$1.25 \times \sqrt{\text{VOR height}}$$

= $1.25 \times \sqrt{1500}$
= 48.4 nm
Aircraft line of sight = $1.25 \times \sqrt{\text{aircraft height}}$
= $1.25 \times \sqrt{4500}$
= 83.9 nm

 $Maximum\ reception\ distance = 48.4nm + 83.9nm = 132.3nm$

The correct answer is c) 132nm