Pythagorean Theorem in 3D Solids

1. What is the length of the chord of the sphere shown below? Give an exact answer using a square root.



2. What is the volume of the sphere shown below? Give an exact answer using a square root.



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1. What is the length of the chord of the sphere shown below? Give an exact answer using a square root.



The length of the chord is $\sqrt{162} m$, or $9\sqrt{2} m$.

2. What is the volume of the sphere shown below? Give an exact answer using a square root.



The volume of the sphere is
$$\frac{4}{3}(\sqrt{98})^3\pi$$
 in³, or $\frac{2744\sqrt{2}}{3}\pi$ in³.

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