Unit 5 (A.REI.A – radical) Review

Solve each equation. Show all required work. Check for and identify any extraneous solutions.

1)
$$x = \sqrt{10x - 24}$$
2) $5 \cdot \sqrt[3]{3x + 5} = -35$ 3) $\sqrt[4]{x} + 48 = 43$ Answer(s):Answer(s):Answer(s):4) A formula showing how to calculate the radius of a sphere based on its volume is $\sqrt[3]{\frac{3v}{4\pi}} = r$ Answer(s):Show how to use this formula to calculate the volume of a sphere with a radius of 8 cm. Leave your answer in terms of π (not converting π to aAnswer(s):

Answer:_____

decimal). Don't forget your units!