

Name _____

1.4 Quiz

Find the real solutions of each equation. Check for extraneous solutions.

1. $\sqrt[3]{4-5x} - 4 = 0$

2. $3 + \sqrt{5-x} = x$

3. $(2x-7)^{\frac{1}{3}} = -3$

4. $x^8 + 14x^4 - 32 = 0$

5. $x - 5\sqrt{x} = 0$

6. $3x^{\frac{4}{3}} - 10x^{\frac{2}{3}} - 8 = 0$

7. $x^4 = 9x^2$

8. $5x^3 - 20x = 2x^2 - 8$

9. $x^5 - 5x^4 - 50x^3 = 0$