Standardized Test Prep

Solving Square Root and Other Radical Equations

Gridded Response

Solve each exercise and enter your answer in the grid provided.

1. What is the solution? $\sqrt{2x-4}-3=1$

2. What is the solution? $5x^{\frac{1}{2}} - 8 = 7$

3. What is the solution? $\sqrt{2x-6}=3-x$

4. What is the solution? $\sqrt{5x-3} = \sqrt{2x+3}$

5. Kepler's Third Law of Orbital Motion states that the period *P* (in Earth years) it takes a planet to complete one orbit of the sun is a function of the distance d (in astronomical units, AU) from the planet to the sun. This relationship is $P = d^{\frac{3}{2}}$. If it takes Neptune 165 years to orbit the sun, what is the distance (in AU) of Neptune from the sun? Round your answer to two decimal places.

Answers







