$\qquad$
$\qquad$ Date $\qquad$

## 6-5 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? $\sqrt{2 x-4}-3=1$
2. What is the solution? $5 x^{\frac{1}{2}}-8=7$
3. What is the solution? $\sqrt{2 x-6}=3-x$
4. What is the solution? $\sqrt{5 x-3}=\sqrt{2 x+3}$
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

2.

3.

4.

5.


