

Homework 11 (due 11/14) at Princeton Assigned: 10/27/2020 due: 11/14/2020 Course Number: 3097, Joe Foweraker Academic Year:

How many of the following are true?
How many of the following are false?
100

1. $\sqrt{2}$ is a rational number.
2. $\sqrt{2}$ is an irrational number.

3. $\sqrt{2}$ is a real number.

4. $\sqrt{2}$ is a complex number.

5. $\sqrt{2}$ is a transcendental number.

6. $\sqrt{2}$ is a constructible number.
7. $\sqrt{2}$ is a constructible number.

8. $\sqrt{2}$ is a constructible number.

9. $\sqrt{2}$ is a constructible number.

10. $\sqrt{2}$ is a constructible number.

11. $\sqrt{2}$ is a constructible number.

12. $\sqrt{2}$ is a constructible number.

13. $\sqrt{2}$ is a constructible number.

14. $\sqrt{2}$ is a constructible number.

15. $\sqrt{2}$ is a constructible number.