

History of Mathematics

Sixth Homework:

Due Monday 28 February 2022.

Math 629

22 February 2022

To hand in: We are using Gradescope for homework submission.

1. [10] Exercise 7.4.1 from Stillwell.
2. [10] Exercise 7.4.2 from Stillwell.
3. [10] Use the same method to find a parametrization for $y^2 = x^2(x - 1)$. What is different about the third "curve" ? (Hint: draw the curve and consider the origin)
4. [10] Exercise 7.5.1 from Stillwell. I think that both conics can be parabolas, but they will need to open in different directions.
5. [10] Exercise 7.5.2 from Stillwell. (Same comment as the previous problem.)
6. [10] Exercise 9.5.3 from Stillwell.
7. [10] Exercise 9.5.4 from Stillwell.
8. [10] Exercise 9.6.1 from Stillwell.
9. [10] Exercise 9.6.2 from Stillwell.
10. [10] Exercise 9.6.3 from Stillwell. Doing this trio, you will one-up Leibniz!