

# History of Mathematics

Sixth Homework:

Due Monday 26 February 2024.

Math 629

20 February 2024

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

1. [10] SHORT ANSWER: What was Descartes most famous for?
2. [10] SHORT ANSWER: What was the profession of Fermat, and what is he most famous for?
3. [10] Exercise 7.4.1 from Stillwell.
4. [10] Exercise 7.4.2 from Stillwell.
5. [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)
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!