

Math 255 - Spring 2018
Suggested problems - Solving $x^2 \equiv a \pmod{p^k}$

There will be a quiz on this topic on Monday April 30.

1. Please give all solutions to the following equations:

(a) $x^2 \equiv 71 \pmod{125}$

(b) $x^2 \equiv 58 \pmod{81}$

(c) $x^2 \equiv 39 \pmod{343}$

(d) $x^2 \equiv 89 \pmod{121}$