Math 173A - Factoring

- 1. Factor 299 using Pollard's p-1 algorithm
- 2. Use the following data to factor N = 52907.

$$399^2 \equiv 480 \pmod{52907}$$
 and $480 = 2^5 \cdot 3 \cdot 5$
 $763^2 \equiv 192 \pmod{52907}$ and $192 = 2^6 \cdot 3$
 $773^2 \equiv 15552 \pmod{52907}$ and $15552 = 2^6 \cdot 3^5$
 $976^2 \equiv 250 \pmod{52907}$ and $250 = 2 \cdot 5^3$