

Solve each equation

1. $16 \equiv 3^x \pmod{31}$

2. $13 \equiv 3^x \pmod{31}$

3. $19 \equiv 11^x \pmod{31}$

4. $2 \equiv 24^x \pmod{31}$

5. $27 \equiv 2^x \pmod{31}$