

Class 1 Homework

1. What is the binary representation of the base-10 number 45?
2. Find $101101_2 + 100101_2$.
3. Using your knowledge of how addition works in base-2 (binary), can you figure out how to add numbers from other base-n systems? Try $3401_5 + 1134_5$ and $62523_7 + 5302_7$.
4. We haven't learned how to multiply binary numbers in class, but can you figure out how to find $101_2 \times 100_2$?
5. What is the parity of 1101000101_2 ?