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Hw 16

1. The advantage of using a carry look ahead adder over a "ripple" type of adder is because the carry look ahead is faster and speeds up carry process

2. $24 - 5$ $24 \rightarrow 011000$
 $5 \rightarrow 000101$

$000101 \rightarrow \text{flip}$

$111010 \rightarrow$

$111011 \rightarrow \text{add 1}$

$$\begin{array}{r} 011000 \\ + 111011 \\ \hline 1010011 = 19 \end{array}$$

carry sum

3. ALU is the Arithmetic Logic Unit. This is a function that uses addition, subtraction, AND, and XOR.