HW
M1WS1

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Numbering System Conversions

Show Work! Point deductions taken if work not shown

1. Convert $1011_2$ to decimal

$11_{10}$

1 0 1 1

$8 + 2 + 1 = 11_{10}$

2. Convert $111011_2$ to decimal

$59_{10}$

1 1 1 0 1 1

32 16 8 4 2 1 $= 59_{10}$

3. Convert $1011101_2$ to decimal

$93_{10}$

32 8 2

1 0 1 1 1 0 1

64 16 4 1 $= 93_{10}$

4. Convert $111000_2$ to decimal

$56_{10}$

32 8

1 1 1 0 0 0 $= 56_{10}$

16 4 2 1

5. Convert $1100011_2$ to decimal

$99_{10}$

32 8 2

1 1 0 0 0 1 1 $= 99_{10}$

64 16 4 1

6. Convert $11111111_2$ to decimal

$255_{10}$

128 32 8 2

1 1 1 1 1 1 1 1 $= 255_{10}$

64 16 4 1