Conversion Integer

For Base 8 every 3 places Base 2

Convert back as a check

$$1 \times 8^{3} + 7 \times 8^{1} + 3 \times 8^{\circ}$$

 $64 + 56 + 3 = 183,0$

Since 123,0 is what we started with then we are assured the intermediate results are cornect.

$$|0|0| \Rightarrow |x|^{2} + 0|x|^{3} + |x|^{2} + 0|x|^{2} + |x|^{2}$$

$$= |16| + 4| + |$$

$$= |2|_{10}$$

$$1 \times 8^{3} + 2 \times 8^{1} + 3 \times 8^{\circ} = 64 + 16 + 3$$

$$= 83,0$$

Mu EL

Checks

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