Check-Up Time...

1. Express each of the following as a MIXED radical in SIMPLEST form:

$(a)\ \sqrt{48}$ $\sqrt{16}\cdot\sqrt{3}$ $4\sqrt{3}$

$(b)\ \sqrt[3]{24}$ $\sqrt[3]{8}\cdot\sqrt[3]{3}$ $2\sqrt[3]{3}$

$(c)\ \sqrt[3]{-81}$ $\sqrt[3]{-27}\cdot\sqrt[3]{3}$ $-3\sqrt[3]{3}$ OR $3\sqrt[3]{-3}$

$(d)\ 5\sqrt[4]{162}$ $5\left(\sqrt[4]{81}\cdot\sqrt[4]{2}\right)$ $5(3\sqrt[4]{2})$ $15\sqrt[4]{2}$

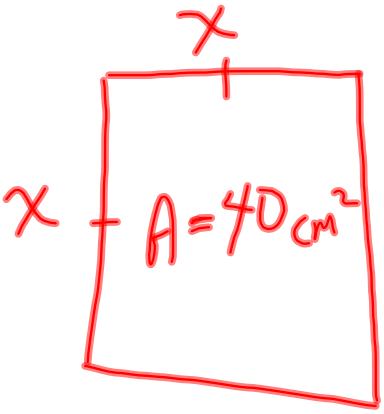
2. Express each of the following as an ENTIRE radical:

$(a)\ 3\sqrt{5}$ $\sqrt{3^2\cdot 5}$ $\sqrt{45}$

$(b)\ -4\sqrt{3}$ $-\sqrt{4^2\cdot 3}$ $-\sqrt{48}$

$(c)\ 2\sqrt[3]{9}$ $\sqrt[3]{2^3\cdot 9}$ $\sqrt[3]{72}$

$(d)\ 2\sqrt[5]{27}$ $\sqrt[5]{2^5\cdot 27}$ $\sqrt[5]{864}$



$(x)(x) = 40$ Q

$\sqrt{x^2} = \sqrt{40} \Rightarrow 6.32455\ldots$

$x = \sqrt{4} \cdot \sqrt{10}$

$= 2\sqrt{10}$

Practice Problems...

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#4, 5, 10, 11, 12, 14, 15, 16, 17, 18, 20, 21 22

How am I doing so far???

- Shall we find out…

Summative Review
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#1, 3, 4, 7, 9, 11

Attachments

applications of sequences.doc