Review... Negative Exponents...

$5^{-2} = \left(\frac{1}{5}\right)^2$ or $\frac{1}{5^2}$

$= \frac{1}{25}$

$\frac{1}{2^{-3}} = 2^3$

$= 8$

$\left(\frac{-8}{27}\right)^{\frac{-2}{3}} = \left(-\frac{27}{8}\right)^{\frac{2}{3}}$

$= \left(-\frac{3}{2}\right)^2$

$= \frac{9}{4}$

Simplify each radical to a mixed radical.

4
9
16
25

$\sqrt{18} \rightarrow \sqrt{9 \times 2}$

$3\sqrt{2}$

3×6

$3 \times 3 \times 2$

$\sqrt[3]{48}$

$\sqrt[3]{12 \times 4}$

$6 \times 2 \times 2 \times 2$

$3 \times 2 \times 2 \times 2 \times 2$

$2\sqrt[3]{6}$

$\sqrt[3]{8 \times 6}$

$2\sqrt[3]{6}$

$3\sqrt{50}$

$3\sqrt{25 \times 2}$

$15\sqrt{2}$

50

$2 \cdot 25$

$3\sqrt{2 \cdot 5 \cdot 5}$

$15\sqrt{2}$

Write each mixed radical as an entire radical.

$3\sqrt{5}$

$\sqrt{3^2 \times 5}$

$\sqrt{45}$

$4\sqrt[3]{3}$

$\sqrt[3]{4^3 \times 3}$

$\sqrt{192}$

$2\sqrt[4]{6}$

$\sqrt[4]{2^4 \times 6}$

$\sqrt[4]{96}$

$\sqrt{48}$ $\sqrt{16\times3}$

$\sqrt{6\times8}$

$3\times2\times4\times2$

$\sqrt{3\times2\times2\times2\times2}$

$4\sqrt{3}$

$\sqrt[3]{1088}$

16×68

$8\times2\times4\times17$

$2\times4\times2\times2\times2\times17$

$2\times2\times2\times2\times2\times2\times17$

$4\sqrt[3]{17}$

$\sqrt[3]{15\times15\times15\times3}$

$15\sqrt[3]{3}$

$\sqrt[3]{*\cdot*\cdot*\cdot\cdot}$

$*\sqrt[3]{\cdot}$

$\sqrt{200}$

$= \sqrt{100 \times 2}$

$= 10\sqrt{2}$

$\sqrt{25 \times 8}$

$5\sqrt{4 \times 2}$

$5 \times 2\sqrt{2}$

$10\sqrt{2}$

8
27
64
~~125~~

$\sqrt[3]{432} = \sqrt[3]{27 \times 16}$

$= 3\sqrt[3]{8 \times 2}$

$= 3 \times 2\sqrt[3]{2}$

$= 6\sqrt[3]{2}$

$\sqrt[3]{12 \times 36}$

$2 \times 6 \times 6 \times 6$

$2 \times 2 \times 3 \times 2 \times 3 \times 2 \times 3$

$2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 3$

$6\sqrt[3]{2}$

- Homework Section 4.5

***FPCM 10*:**
Page 233: #3 TO #14
Page 234: #15 TO #17ab and #18 TO #20

QUIZ PREPARATION for Friday:

Review for Sections 4.2 & 4.3
***FPCM 10*:**
Page 221: #1, #3, #4, #6a, #7b, #8, #9 & #11

QUIZ PREPARATION for Monday:

Review for Sections 4.4 & 4.5

***FPCM 10*:**

Page 236: #1 to #8 (ALL!)

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