

Nov 5-12:57 PM

Sep 5-8:14 AM

Sep 13-9:47 AM

Nov 5-12:59 PM

Sep 13-9:43 AM

Sep 5-8:29 AM

You Try!!

$$\begin{aligned}
 5) & 3\sqrt{18} + 3\sqrt{12} + 2\sqrt{27} \\
 &= 9\sqrt{2} + 6\sqrt{3} + 6\sqrt{3} \\
 &= 9\sqrt{2} + 12\sqrt{3}
 \end{aligned}$$

$$\begin{aligned}
 & 3\sqrt{18} \\
 &= 3\sqrt{2 \cdot 3 \cdot 3} \\
 &= 9\sqrt{2} \\
 & 3\sqrt{12} \\
 &= 3\sqrt{2 \cdot 2 \cdot 3} \\
 &= 6\sqrt{3} \\
 & 2\sqrt{27} \\
 &= 2\sqrt{3 \cdot 3 \cdot 3} \\
 &= 6\sqrt{3}
 \end{aligned}$$

Sep 13-9:47 AM

#17 Homework

$$\begin{aligned}
 & -\sqrt[3]{320} - 4\sqrt{5} + 2\sqrt[3]{135} + 2\sqrt[3]{16} \\
 &= -4\sqrt{5} - 4\sqrt{5} + 6\sqrt{5} + 4\sqrt{2} \\
 &= -2\sqrt{5} + 4\sqrt{2}
 \end{aligned}$$

$$\begin{aligned}
 \sqrt{8} &= \sqrt{2(4)} = 2\sqrt{2} \\
 \sqrt{18} &= \sqrt{2(9)} = 3\sqrt{2} \\
 \sqrt[3]{108} &= \sqrt[3]{2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 3} = 3\sqrt[3]{4}
 \end{aligned}$$

Sep 5-8:41 AM

#4 HW

$$\begin{aligned}
 & 3\sqrt{900} \\
 &= 3\sqrt{3 \cdot 3 \cdot 2 \cdot 2 \cdot 5 \cdot 5} \\
 &= 90
 \end{aligned}$$

$$\begin{aligned}
 & 900 \\
 & \swarrow \searrow \\
 & 9 \quad 100 \\
 & \swarrow \searrow \quad \swarrow \searrow \\
 & 3 \quad 3 \quad 10 \quad 10 \\
 & \swarrow \searrow \quad \swarrow \searrow \quad \swarrow \searrow \\
 & 3 \quad 3 \quad 2 \quad 2 \quad 5 \quad 5
 \end{aligned}$$

Feb 6-10:25 AM

15 minutes on Practice problems

Sep 5-7:08 AM

Multiplying: Multiply #'s inside radicals and outside radicals separately and simplify

Examples:

$$1) \sqrt{5} \cdot \sqrt{3}$$

$$= \sqrt{5 \cdot 3} = \sqrt{15}$$

Just Same Order of Radicals

$$\begin{aligned}
 2) & 3\sqrt{3}(4 - 3\sqrt{5}) \\
 &= 12\sqrt{3} - 9\sqrt{15}
 \end{aligned}$$

More Multiplying:

Examples:

$$\begin{aligned}
 3) & (-4\sqrt{15})(-\sqrt{3}) \\
 &= 4\sqrt{45} \\
 &= 12\sqrt{5}
 \end{aligned}$$

Nov 5-12:59 PM

Sep 13-9:51 AM

4) $(5-4\sqrt{5})(-2+\sqrt{5})$

$$-10 + 5\sqrt{5} + 8\sqrt{5} - 4\sqrt{25}$$

$$-10 + 13\sqrt{5} - 20 \quad (5-4\sqrt{5})(-2+\sqrt{5})$$

$$= -30 + 13\sqrt{5}$$

Sep 5-8:56 AM

Sep 5-9:03 AM

You Try!!

5) $\sqrt{3}(-5\sqrt{10} + \sqrt{6})$

$$-5\sqrt{30} + \sqrt{18}$$

$$-5\sqrt{30} + \sqrt{3 \cdot 3 \cdot 2}$$

$$= -5\sqrt{30} + 3\sqrt{2}$$

Sep 13-9:53 AM

Practice

Sep 4-6:24 PM

Feb 6-10:34 AM