

Jan 30-4:12 PM


Jan 30-4:17 PM



Jan 30-4:17 PM

| Connect | Radicals |
| :---: | :---: |
| Example 6: | STEPS: |
| $\sqrt[3]{144}=$ | Find the factors of 144. If one is a perfect cube use it. |
| $\sqrt[3]{12 \cdot 12}$ | Continue to break the factors down using prime factorization. |
| $\begin{aligned} & \sqrt[3]{4 \cdot 3 \cdot 4 \cdot 3} \\ & \sqrt[3]{2 \cdot 2 \cdot 3 \cdot 2 \cdot 2 \cdot 3} \end{aligned}$ | Group the prime factors that are the same |
| $\begin{gathered} \sqrt[3]{2.2 .2} \cdot \sqrt[3]{2.3 .3} \\ 2 \sqrt[3]{18} \end{gathered}$ | Solve |



Jan 30-4:17 PM

| Connect | Radicals |
| :---: | :---: |
| Example 7: | STEPS: |
| $\sqrt[4]{162}=$ | Find the factors of 162. Look for factors that appear 4 times. |
| $\sqrt[4]{81 \cdot 2}$ | Continue to break the factors down using prime factorization. |
| $\sqrt{3.3 \cdot 3 \cdot 3 \cdot 2}$ | Group the prime factors that are the same |
|  | Solve |




Jan 30-4:17 PM

