

Rewrite in exponential form	Rewrite in radical form
$\sqrt[4]{5xy^8}$	$36^{\frac{1}{4}}x^{\frac{3}{4}}y^{\frac{5}{4}}$
$\sqrt{44yw^{11}}$	$21^{\frac{1}{3}}x^{\frac{4}{3}}y$

Explain each of the mistakes and give the correct answers

$\sqrt{256x^6y^4} = 512x^2y^2$ State the mistake(s)	State the mistake(s) $\frac{1}{\sqrt[3]{16}} = \frac{1}{\sqrt[3]{16}} \cdot \frac{\sqrt[3]{16}}{\sqrt[3]{16}} = \frac{\sqrt[3]{16}}{16}$	$\sqrt[3]{12x^{81}y^9} = 4x^{27}y^3$ State the mistake(s)
State the correct answer	State the correct answer	State the correct answer

Simplify each of the following radical expression completely SHOW YOUR WORK TO RECEIVE CREDIT

$$\sqrt[3]{-216x^6y^4}$$

Simplify each of the following radical expressions completely SHOW YOUR WORK TO RECEIVE CREDIT

$$\sqrt{\frac{4x^6y^5}{64xy^{21}}}$$

$$\sqrt[3]{\frac{64x^{14}}{125x^8y^6}}$$

Simplify each expression completely and state your final answer using only positive exponents

SHOW ALL OF YOUR WORK IN A CLEAR MANNER

$$\left(\frac{(25x^2y^6)^3}{27x^{24}y^{-11}}\right)^{\frac{-1}{3}}$$

EC. As politely or as nicely as possible ask your teacher for this extra credit point

<p>Rewrite in exponential form</p> $\sqrt[5]{7x^{10}y}$ $\sqrt{88w^{13}x}$	<p>Rewrite in radical form</p> $64^{\frac{1}{5}}x^{\frac{6}{5}}y^{\frac{3}{5}}$ $16^{\frac{1}{8}}x^{\frac{5}{8}}y$
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Explain each of the mistakes and give the correct answers

$\sqrt{1024x^{16}y^6} = 32x^4y^3$ <p>State the mistake(s)</p> <p>State the correct answer</p>	<p>State the mistake(s)</p> $\frac{1}{\sqrt[3]{36}} = \frac{1}{\sqrt[3]{36}} \cdot \frac{\sqrt[3]{36}}{\sqrt[3]{36}} = \frac{\sqrt[3]{36}}{36}$ <p>State the correct answer</p>	$\sqrt[3]{15x^{54}y^{12}} = 5x^{18}y^9$ <p>State the mistake(s)</p> <p>State the correct answer</p>
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Simplify each of the following radical expression completely SHOW YOUR WORK TO RECEIVE CREDIT

$$\sqrt[3]{-64x^9y^5}$$

Simplify each of the following radical expressions completely SHOW YOUR WORK TO RECEIVE CREDIT

$$\sqrt{\frac{8x^8y^{15}}{512xy^{21}}}$$

$$\sqrt[3]{\frac{125x^{24}}{216x^9y^9}}$$

Simplify each expression completely and state your final answer using only positive exponents

SHOW ALL OF YOUR WORK IN A CLEAR MANNER

$$\left(\frac{(36x^2y^7)^3}{125x^{30}y^{-10}}\right)^{\frac{-1}{3}}$$

EC. As politely or as nicely as possible ask your teacher for this extra credit point

<p>Rewrite in exponential form</p> $\sqrt[4]{20x^{19}y}$ $\sqrt{44w^{19}x}$	<p>Rewrite in radical form</p> $64^{\frac{1}{6}}x^{\frac{7}{6}}y^{\frac{5}{6}}$ $8^{\frac{2}{3}}x^{\frac{4}{3}}y$
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Explain each of the mistakes and give the correct answers

<p>$\sqrt{121x^{24}y^9} = 11x^{12}y^7$</p> <p>State the mistake(s)</p> <p>State the correct answer</p>	<p>State the mistake(s)</p> $\frac{1}{\sqrt[3]{49}} = \frac{1}{\sqrt[3]{49}} \cdot \frac{\sqrt[3]{49}}{\sqrt[3]{49}} = \frac{\sqrt[3]{49}}{49}$ <p>State the correct answer</p>	<p>$\sqrt[3]{125x^{66}y^{30}} = 25x^{33}y^{10}$</p> <p>State the mistake(s)</p> <p>State the correct answer</p>
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Simplify each of the following radical expression completely SHOW YOUR WORK TO RECEIVE CREDIT

$$\sqrt[3]{-64x^{13}y^{15}}$$

Simplify each of the following radical expressions completely SHOW YOUR WORK TO RECEIVE CREDIT

$$\sqrt{\frac{1000x^{24}y^9}{125xy^{21}}}$$

$$\sqrt[3]{\frac{216x^{48}}{8x^{17}y^{18}}}$$

Simplify each expression completely and state your final answer using only positive exponents

SHOW ALL OF YOUR WORK IN A CLEAR MANNER

$$\left(\frac{(100x^6y^{15})^3}{64x^{54}y^{-30}}\right)^{\frac{-1}{3}}$$

EC. As politely or as nicely as possible ask your teacher for this extra credit point

<p>Rewrite in exponential form</p> $\sqrt[4]{10x^{12}y}$ $\sqrt{99w^{17}x}$	<p>Rewrite in radical form</p> $128^{\frac{1}{3}}x^{\frac{7}{3}}y^{\frac{2}{3}}$ $64^{\frac{1}{6}}x^{\frac{5}{6}}y$
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Explain each of the mistakes and give the correct answers

<p>$\sqrt{100x^{18}y^{21}} = 10x^6y^7$ State the mistake(s)</p> <p>State the correct answer</p>	<p>State the mistake(s)</p> $\frac{1}{\sqrt[3]{81}} = \frac{1}{\sqrt[3]{81}} \cdot \frac{\sqrt[3]{81}}{\sqrt[3]{81}} = \frac{\sqrt[3]{81}}{81}$ <p>State the correct answer</p>	<p>$\sqrt[3]{216x^{45}y^{21}} = 72x^{42}y^7$ State the mistake(s)</p> <p>State the correct answer</p>
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Simplify each of the following radical expression completely SHOW YOUR WORK TO RECEIVE CREDIT

$$\sqrt[3]{-125x^{12}y^{11}}$$

Simplify each of the following radical expressions completely SHOW YOUR WORK TO RECEIVE CREDIT

$$\sqrt{\frac{512x^{12}y^{19}}{125xy^{21}}}$$

$$\sqrt[3]{\frac{8x^{37}}{1000x^{12}y^{15}}}$$

Simplify each expression completely and state your final answer using only positive exponents

SHOW ALL OF YOUR WORK IN A CLEAR MANNER

$$\left(\frac{(121x^4y^8)^3}{125x^{84}y^{-25}}\right)^{\frac{-1}{3}}$$

EC. As politely or as nicely as possible ask your teacher for this extra credit point