

Find the Errors

Original Problem	Incorrect Work <i>(Examine the incorrect work below to find the mistake(s). CIRCLE any mistakes that you find.)</i>	Corrected Work <i>Use the space below to show the CORRECT way to solve the problem.</i>
$\sqrt{15} \cdot \sqrt{\frac{3}{5}}$	$\frac{\sqrt{45} \cdot \sqrt{5}}{\sqrt{5} \cdot \sqrt{5}} = \frac{\sqrt{225}}{5}$ $= \frac{15}{5}$ $= \sqrt{45}$ $= \sqrt{9 \cdot 5} = \boxed{3\sqrt{5}}$	
$\sqrt[3]{\frac{8y}{3x^4}}$	$\frac{\sqrt[3]{8y}}{\sqrt[3]{3x^4}} \cdot \frac{\sqrt[3]{3x^4}}{\sqrt[3]{3x^4}} = \frac{2\sqrt[3]{3x^4y}}{3x^4}$ $= \frac{2\sqrt[3]{3x^4y}}{3x^4}$ $= \boxed{2\sqrt[3]{y}}$	
$\sqrt{\frac{5}{2}} + \sqrt{\frac{2}{5}}$	$\left(\frac{\sqrt{5}}{\sqrt{2}} + \frac{\sqrt{2}}{\sqrt{5}}\right) \sqrt{10} =$ $\frac{\sqrt{50}}{\sqrt{2}} + \frac{\sqrt{20}}{\sqrt{5}} = \sqrt{25} + \sqrt{4} = 5 + 2$ $= \boxed{7}$	
$\sqrt{\frac{3}{7}} + \sqrt{\frac{7}{3}}$	$\frac{\sqrt{3} \cdot \sqrt{7}}{\sqrt{7} \cdot \sqrt{7}} + \frac{\sqrt{7} \cdot \sqrt{3}}{\sqrt{3} \cdot \sqrt{3}} =$ $\boxed{\frac{\sqrt{21}}{7} + \frac{\sqrt{21}}{3}}$	

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$\sqrt[3]{54x^5}$	$\sqrt[3]{\underline{27} \cdot \underline{2} \cdot \underline{x^3} \cdot x^2}$ $\boxed{2x^2 \cdot \sqrt[3]{3x}}$	
$\frac{\sqrt{18} - \sqrt{6}}{\sqrt{3}}$	$\frac{\sqrt{18}}{\sqrt{3}} - \frac{\sqrt{6}}{\sqrt{3}} = \frac{\cancel{3}\sqrt{2}}{\cancel{3}} - \frac{\sqrt{6}}{\sqrt{3}}$ $= \sqrt{2} - \sqrt{2}$ $= \boxed{0}$	
$\sqrt[3]{\frac{8x}{3y^5}}$	$\frac{\sqrt[3]{8x}}{\sqrt[3]{3y^5}} = \frac{2\sqrt[3]{x}}{y\sqrt[3]{3y^2} \cdot \sqrt[3]{9y}}$ $= \boxed{\frac{2\sqrt[3]{9xy}}{3y}}$	
$\sqrt[3]{24} - \sqrt[3]{56} + \sqrt[3]{81}$	$\sqrt[3]{8 \cdot 4} - \sqrt[3]{8 \cdot 7} + \sqrt[3]{9 \cdot 9}$ $\boxed{2\sqrt[3]{4} - 2\sqrt[3]{7} + 3\sqrt[3]{9}}$	