September 9, 2015

Quiz #3 → 5 Bonus Points for MA SG!

(125)

Sep 9-9:50 AM

#3)

$$\left(\frac{3x^{1/2}y}{2^{1/3}}\right)^{-1}\cdot\left(\frac{6x^{1/2}2}{y^{-1/3}}\right)^{2}$$

$$\frac{3^{-1}\cdot(x^{1/2})^{-1}\cdot y^{-1}}{(2^{1/3})^{-1}}\cdot\frac{6^{2}\cdot(x^{1/2})^{2}\cdot 2^{2}}{(y^{-1/3})^{2}}$$

$$\frac{2^{1/3}}{3x^{1/2}y}\cdot\frac{36x2^{2}y^{2/3}}{1}$$

$$12x^{\frac{1}{1}-\frac{1}{2}}2^{\frac{1}{3}+\frac{2}{1}}y^{\frac{2}{3}-\frac{1}{1}}$$

$$12x^{1/2}2^{\frac{7}{3}}y^{-1/3}$$

$$\frac{12x^{1/2}2^{\frac{7}{3}}}{y^{1/3}}$$

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

$\frac{1}{3}+\frac{2}{1}=\frac{1+6}{3}=\frac{7}{3}$

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

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8.2

Product Rule for Radicals

$$\sqrt[n]{ab}=\sqrt[n]{a}\cdot\sqrt[n]{b}$$

$$(ab)^{1/n}$$

$$\sqrt{50}=\sqrt{25\cdot 2}$$

$$=\sqrt{25}\cdot\sqrt{2}$$

$$=\boxed{5\sqrt{2}}$$ ← Simplified

$$\sqrt{33}=\sqrt{3\cdot 11}=\sqrt{3}\cdot\sqrt{11}$$

Simplified

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