7.1 Review

9. $\sqrt[3]{8x^4y^9z^{11}}$

$2xy^3z^3\sqrt[3]{xz^2}$

10. $\dfrac{\sqrt[4]{32x^4y^5z^9}}{\sqrt[4]{16\cdot 2x^4y^5z^9}}$

$2xyz^2\sqrt[4]{2yz}$

8. $\dfrac{\sqrt{64b^7}}{8b^3\sqrt{b}}$

2. $\sqrt[3]{\dfrac{-27}{216}} = \dfrac{-3}{6}$

4. $-\sqrt[3]{64} = -4$

5. $\sqrt[3]{-64} = -4$

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7.2

6. $\dfrac{\sqrt[4]{3xy^2}}{\sqrt[4]{5x^2y^7}} = \dfrac{\sqrt[4]{3}}{\sqrt[4]{5^1xy^5}} \cdot \dfrac{\sqrt[4]{5^3x^3y^3}}{\sqrt[4]{5^3x^3y^3}}$

$\dfrac{\sqrt[4]{375x^3y^3}}{\sqrt[4]{625x^4y^8}}$

$\dfrac{\sqrt[4]{375x^3y^3}}{5xy^2}$

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7.2

② $\sqrt{7x^5} \cdot \sqrt{42xy^9} = \sqrt{294x^6y^9}$

$7\sqrt{6x^6y^9}$

$7x^3y^4\sqrt{6y}$

5. $\frac{\sqrt[3]{5}}{\sqrt[3]{3x}} \cdot \frac{\sqrt[3]{3x}}{\sqrt[3]{3x}} \cdot \frac{\sqrt[3]{3x}}{\sqrt[3]{3x}}$

$= \frac{\sqrt[3]{45x^3}}{\sqrt[3]{27x^3}} = \frac{\sqrt[3]{45x^2}}{3x}$

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7.3

③ $3\sqrt[3]{81} - 2\sqrt[3]{54}$

$3\sqrt[3]{27 \cdot 3} - 2\sqrt[3]{27 \cdot 2}$

$\boxed{9\sqrt[3]{3} - 6\sqrt[3]{2}}$

4. $(2 + \sqrt{5})(1 + \sqrt{5})$

$3 + 3\sqrt{5} + 1\sqrt{5} + 5$

$8 + 4\sqrt{5}$

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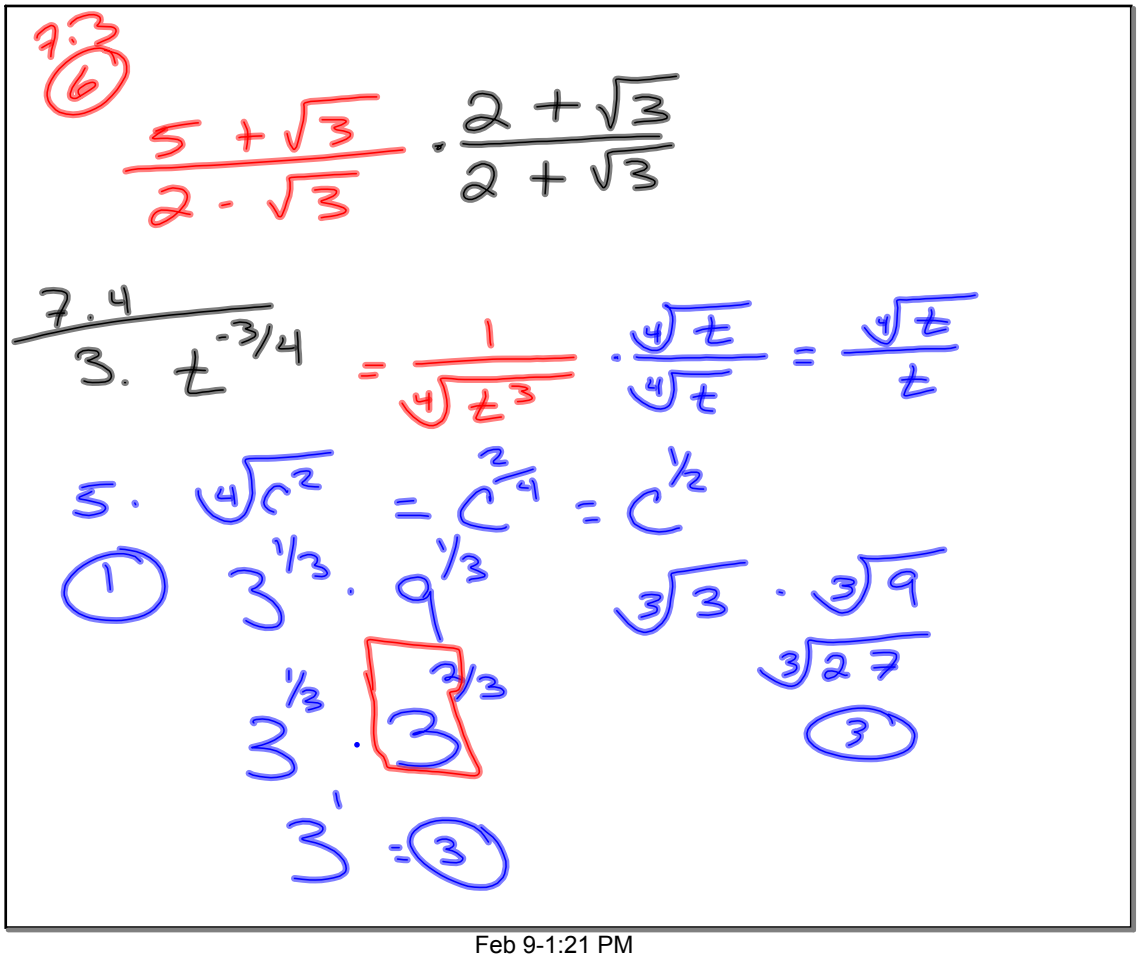

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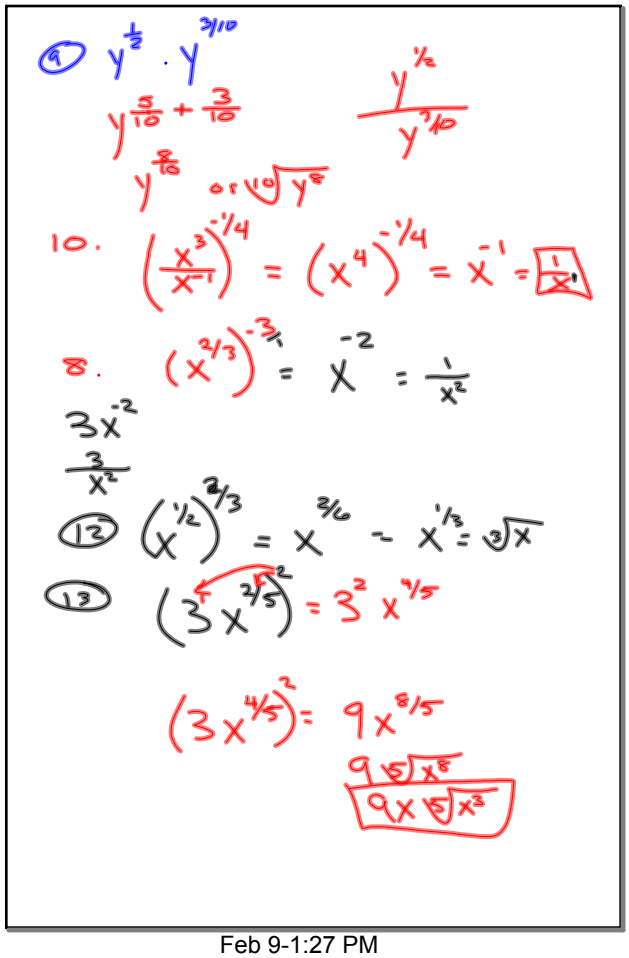

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$f \circ g$

$f(g(x))$

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