

7.3 HW

$$\textcircled{11} \quad \frac{2 + \sqrt{12}}{5 - \sqrt{12}} \cdot \frac{5 + \sqrt{12}}{5 + \sqrt{12}} = \frac{10 + 2\sqrt{12} + 5\sqrt{12} + 12}{25 + 5\sqrt{12} - 5\sqrt{12} - 12}$$

$$\frac{22 + 7\sqrt{12}}{13}$$

$$\star \frac{22 + 14\sqrt{3}}{13} \star$$

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$$\textcircled{9} \quad \frac{5}{2 + \sqrt{3}} \cdot \frac{2 - \sqrt{3}}{2 - \sqrt{3}}$$

$$\textcircled{31} \quad \frac{2 + \sqrt{14}}{\sqrt{7} + \sqrt{2}} \cdot \frac{\sqrt{7} - \sqrt{2}}{\sqrt{7} - \sqrt{2}}$$

$$7 - \sqrt{14} + \sqrt{14} - 2$$

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15 $2\sqrt[4]{48} + 3\sqrt[4]{243}$

$2\sqrt[4]{16 \cdot 3} + 3\sqrt[4]{81 \cdot 3}$

$2(2)\sqrt[4]{3} + 3(3)\sqrt[4]{3}$

$4\sqrt[4]{3} + 9\sqrt[4]{3}$

$13\sqrt[4]{3}$

$\begin{array}{r} 4+4 \\ \hline 1 \\ 16 \\ 81 \\ 256 \end{array}$

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25 $4\sqrt[3]{81} + 2\sqrt[3]{72} - 3\sqrt[3]{24}$

$4\sqrt[3]{27 \cdot 3} + 2\sqrt[3]{8 \cdot 9} - 3\sqrt[3]{8 \cdot 3}$

$12\sqrt[3]{3} + 4\sqrt[3]{9} - 6\sqrt[3]{3}$

$6\sqrt[3]{3} + 4\sqrt[3]{9}$

$\sqrt[3]{3 \cdot 3}$

$\begin{array}{r} 1 \\ 8 \\ 27 \\ 64 \\ 125 \\ 216 \end{array}$

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

$$\frac{\sqrt[3]{5}}{\sqrt[3]{3x}} \cdot \frac{\sqrt[3]{3^2 x^2}}{\sqrt[3]{3^2 x^2}} = \frac{\sqrt[3]{45 x^2}}{\sqrt[3]{27 x^3}}$$

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

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7.

$$\frac{\sqrt[4]{3xy^2}}{\sqrt[4]{5x^2y^7}} \cdot \frac{\sqrt[4]{5^3x^2y}}{\sqrt[4]{5^3x^2y}}$$

$$\frac{\sqrt[4]{375x^3y^3}}{\sqrt[4]{5^4x^4y^8}} = \frac{\sqrt[4]{375x^3y^3}}{5xy^2}$$

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★ You should know these!! ★

	x^2	x^3	x^4	x^5	x^6
1	1	1	1	1	
2	4	8	16	32	64
3	9	27	81	243	729
4	16	64	256	1024	
5	25	125	625		

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Quiz tomorrow over 7.1-7.3

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