

Starter #4
 Homework Questions
 2.4 Multiplying Radicals
 Ferris Wheel Group Activity
 Unit 2 Review Next Time
 Unit 2 Test 10/4 Tuesday

Sep 26-9:00 PM

Homework Questions
 26) $2x^2 + 5x - 3$
 $+ 4x - 7 + 3x^2 + 10$
 $2x^2 + \cancel{5x - 7} + \cancel{4x - 7} + 3x^2 + \cancel{10}$
 $5x^2 + 9x$

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17) $3\sqrt{6} + 2\sqrt{54} - \sqrt{18} + 3\sqrt{6}$
 $6\sqrt{6} + 6\sqrt{6} - 3\sqrt{2}$
 $12\sqrt{6} - 3\sqrt{2}$

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15) $-3\sqrt{24} + 2\sqrt{24} - \sqrt{5} + 2\sqrt{24}$
 $\sqrt{24} - \sqrt{5}$
 $2\sqrt{6} - \sqrt{5}$

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2.4 Multiplying Radicals
 Steps:
 1. Multiply Outside
 2. Multiply Inside
 3. Simplify
 () () Steps:
 1. Set Up Your Box, Multiply
 2. Combine Like Terms
 3. Simplify

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

$4\sqrt{2}$	$-20\sqrt{4}$	$20\sqrt{2}$
-1	$5\sqrt{2}$	-5

 $-20\sqrt{4} + 5\sqrt{2} + 20\sqrt{2} - 5$
 $-40 + 25\sqrt{2} - 5$
 $-45 + 25\sqrt{2}$

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$(\sqrt{2} - \sqrt{3})(\sqrt{2} - 2\sqrt{3})$

	$\sqrt{2}$	$-2\sqrt{3}$
$\sqrt{2}$	$\sqrt{4}$	$-2\sqrt{6}$
$-\sqrt{3}$	$-\sqrt{6}$	$-2\sqrt{9}$

$\sqrt{4} - \sqrt{6} - 2\sqrt{6} + 2\sqrt{9}$

$-3\sqrt{6} + 2\sqrt{9} + \sqrt{4}$

$-3\sqrt{6} + 2 \cdot 3 + 2$

$-3\sqrt{6} + 6 + 2$

$-3\sqrt{6} + 8$

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Examples

$-\sqrt{3} \cdot -2\sqrt{12}$

$2\sqrt{36}$

$\uparrow \uparrow$

$9 \ 4$

$(3)(2)$

$2 \cdot 3 \cdot 2\sqrt{0}$

$= 6 \cdot 2 = 12$

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#1 $8\sqrt{3}$
 $2\sqrt{6}(\sqrt{8})$
 $2\sqrt{48}$
 $6 \cdot 8$
 $2 \cdot 3 \cdot 2$

#2 $24\sqrt{5}$
 $\sqrt{15}(8\sqrt{3})$

#3 $24\sqrt{5}$
 $2\sqrt{5}(24\sqrt{5})$

#4 $20\sqrt{3}$
 $\sqrt{5}(\cdot 240)$

#5 180
 $\sqrt{27}(20\sqrt{3})$

#6 180
 $\sqrt{18}(\sqrt{180})$

#7 $18\sqrt{15}$
 $\sqrt{6}(18\sqrt{15})$

#8 $24\sqrt{5}$
 $360\sqrt{6}$
 $\sqrt{30}(24\sqrt{5})$

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