2.7 Multiplying Radicals

Investigate Pg.116 $\sqrt{7} \cdot \sqrt{6} = \sqrt{7 \cdot 6}$ $\sqrt{42}$

Simplify the following radicals

1 4 9 16 25 36 49 64 81 100

a) $\sqrt{20}$

$\sqrt{4} \cdot \sqrt{5}$

$2\sqrt{5}$

b) $\sqrt{50}$

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

$5\sqrt{2}$

coefficient

c) $3\sqrt{48}$

$3 \cdot \sqrt{16} \cdot \sqrt{3}$

$3 \cdot 4 \cdot \sqrt{3}$

$12\sqrt{3}$

d) $2\sqrt{45}$

$2 \cdot \sqrt{9} \cdot \sqrt{5}$

$6\sqrt{5}$

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Mutliply the following and state your answer in simplest form

a) $3\sqrt{2} \times \sqrt{5}$

$(3 \times 1)(\sqrt{2} \cdot \sqrt{5})$

$3\sqrt{10}$

b) $5\sqrt{3} \times 4\sqrt{2}$

$20\sqrt{6}$

c) $4\sqrt{3} \times \sqrt{12}$ $\sqrt{4 \times 3}$

$4\sqrt{3} \times 2\sqrt{3}$

$8\sqrt{9}$

$8 \cdot 3$

24

d) $12\sqrt{3} \times (-3\sqrt{18})$ $\sqrt{9 \cdot 2}$

$12\sqrt{3}(-9\sqrt{2})$

$-108\sqrt{6}$

e) $2\sqrt{24} \times 5\sqrt{6}$ $\sqrt{4 \cdot 6}$

$4\sqrt{6} \cdot 5\sqrt{6}$

$20 \cdot 6$

120

f) $\sqrt{7} \times \sqrt{7}$

7

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$-3\sqrt{18}$

$-3 \cdot \sqrt{9} \cdot \sqrt{2}$

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

$-9\sqrt{2}$

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Evaluate the following cube roots

a) $\sqrt[3]{81}$

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

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

1
8
27
64
125

b) $\sqrt[3]{56}$

$\sqrt[3]{8} \cdot \sqrt[3]{7}$

$2\sqrt[3]{7}$

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Assignment: Pg. 119
1, 3 odds
4
11,12 odds
14 evens
18ac

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