C11 - 5.2 - Multiplying Radicals HW

Multiply *the following radicals*

$7\sqrt{3} \times 2\sqrt{5} =$

$2\sqrt{7} \times 3\sqrt{6} =$

$10\sqrt{5x} \times 3\sqrt{7} =$

$x^3\sqrt{3x} \times x\sqrt{5x^5} =$

$7x\sqrt{3} \times 2x\sqrt{5} =$

$10\sqrt{5x} \times 3\sqrt{7} =$

$3 \times \sqrt{5} =$

$\sqrt{5} \times 3 =$

$\sqrt{3} \times \sqrt{5} =$

$\left(\sqrt{5}\right)^2 =$

$\left(-4\sqrt{2}\right)^2 =$

$\left(-4\sqrt{(-2)^2}\right)^2 =$

$\left(\sqrt{x-1}\right)^2 =$

$\left(2\sqrt{x-1}\right)^2 =$

$\left(-3\sqrt{x+2}\right)^2 =$

$7\sqrt[3]{3} \times 2\sqrt[3]{5} =$

$7x\sqrt[3]{3} \times 2x\sqrt[3]{5} =$

$\sqrt[3]{7} \times 2 =$

$\left(2\sqrt[3]{x-1}\right)^3 =$

$7\sqrt{3} \times 2\sqrt[3]{5} =$

$\left(3\sqrt[3]{2}\right)^2 =$

C11 - 5.2 - Multiplying Simplifying Radicals HW

Multiply *the following radicals*

$7\sqrt{3} \times 2\sqrt{6} =$

$2\sqrt{8} \times 3\sqrt{6} =$

$10\sqrt{5x} \times 3\sqrt{7x} =$

$7x\sqrt{3} \times 2x\sqrt{9} =$

$2\sqrt{12x^2} \times 3\sqrt{6x} =$

$10\sqrt{14x} \times 3\sqrt{7} =$

$\left(\sqrt{5x}\right)^2 =$

$\left(3x\sqrt{2x}\right)^2 =$

$\left(-4\sqrt{2x^3}\right)^2 =$

$7\sqrt[3]{3} \times 2\sqrt[3]{27} =$

$7x\sqrt[3]{15} \times 2x\sqrt[3]{5} =$

$\sqrt[3]{8} \times 2 =$

C11 - 5.2 - Distribute/FOIL Radicals HW

Add or subtract the following radicals

$\sqrt{2}(\sqrt{5} + \sqrt{3}) =$

$2\sqrt{7}(3\sqrt{6} + \sqrt{2}) =$

$5(2\sqrt{7} + 4) =$

$\sqrt{7}(2 + \sqrt{3x}) =$

$\sqrt[3]{7}(2x^2 + \sqrt[3]{3}) =$

$\sqrt{5}(6 + \sqrt{5x}) =$

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

$(\sqrt{7} + \sqrt{5})(\sqrt{7} - \sqrt{5})$

$(\sqrt{2x} + \sqrt{5})(\sqrt{2x} + \sqrt{5})$

$(\sqrt{7} + \sqrt{5x})^2$

$(\sqrt{2} + \sqrt{7})(\sqrt{3} + \sqrt{5})$

$(\sqrt{2} + \sqrt{3})(\sqrt{6} + \sqrt{2})$

$(\sqrt{x+2} + 1)(\sqrt{x+2} - 1)$

$(\sqrt{x-3} + 1)(\sqrt{x-3} + 4)$

C11 - 5.2 - Dividing Radicals HW

Simplify or Divide the following radicals

$\dfrac{\sqrt{10}}{\sqrt{5}} =$

$\dfrac{\sqrt{12}}{\sqrt{4}} =$

$\dfrac{\sqrt{1}}{\sqrt{4}} =$

$\dfrac{4\sqrt{6x^2}}{2\sqrt{3x}} =$

$\dfrac{8\sqrt{6x}}{4\sqrt{2x}} =$

$\dfrac{8\sqrt{10}}{3\sqrt{-2}} =$

$\dfrac{2\sqrt{3x}}{4\sqrt{6}} =$

$\dfrac{6x\sqrt{2}}{12x^2\sqrt{6}} =$

$\dfrac{3x^2\sqrt{5}}{7x\sqrt{6}} =$

$\dfrac{8\sqrt{18}}{4\sqrt{2}} =$

$\dfrac{6\sqrt{32}}{3\sqrt{2}} =$

$\dfrac{1\sqrt{45}}{6\sqrt{5}} =$

$\dfrac{6\sqrt{24}}{3\sqrt{3}} =$

$\dfrac{9\sqrt{7}}{\sqrt{63}} =$

$\dfrac{5\sqrt{12}}{6\sqrt{54}} =$