MATH 0482

Chapter 5.3 Adding and Subtracting Radical Expressions

$5\sqrt[3]{2}$

RADICAND: 2
INDEX: 3
MULTIPLIER: 5

Simplify.

$2\sqrt{6} + 5\sqrt{6}$

$7\sqrt[3]{5} + 3\sqrt[3]{5}$

$4\sqrt{10} - 5\sqrt{10}$

$10\sqrt{5} + 6\sqrt{2} - 9\sqrt{5} - 7\sqrt{2}$

$5\sqrt[3]{10} + 3\sqrt{10} - \sqrt[3]{10} - 2\sqrt{10}$

$\sqrt{32} - \sqrt{18} + \sqrt{50}$

$\sqrt[3]{108} + \sqrt[3]{24} - \sqrt[3]{32} - \sqrt[3]{81}$

$-9\sqrt[3]{5x} - \sqrt[3]{2x} + 10\sqrt[3]{5x}$

$(5\sqrt{x} - 4\sqrt{y}) - (4\sqrt{x} - 7\sqrt{y})$

$5\sqrt[3]{3x^4} + \sqrt[3]{24x^3} - (x\sqrt[3]{24x} + 4\sqrt[3]{3x^3})$

$$2a\sqrt{125a^2b} - a^2\sqrt{80b} + 4\sqrt{20a^4b}$$

Calculate the perimeter of the triangle formed by the points $(-2,-1)$, $(-3,6)$, and $(2,1)$.