## Answer on Question #82814 – Math – Algebra

## Question

A businessman in Philadelphia wants to buy electric heaters. His best sources are two firms in Chicago. Let's call them Firm A and Firm B. Firm A lists a heater at \$291 less 331/3% and 10%, F.O.B. Chicago. Firm B lists the same heater at \$350, less 30% and 20%, F.O.B. destination. In addition, both firms offer a 2% discount for cash within 10 days. The freight on each heater would be \$22.75. What will be the least cost of the heater from each concern?

## Solution

Firm A:  $\$291 * (1 - \frac{1}{3}) * (1 - 0.1) * (1 - 0.02) + \$22.75 = \$193.86$ . Firm B: \$350 \* (1 - 0.3) \* (1 - 0.2) \* (1 - 0.02) + \$22.75 = \$214.83. **Answer:** \$193.86 from firm A and \$214.83 from firm B.

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