- 12. [8 points] In preparation for an upcoming party, you are deciding where to buy a large supply of candy. You have investigated two sources. Define function C and T as follows.
  - It costs C(p) dollars to buy p pounds of candy from the Candy Company.
  - ullet For d dollars, you can buy T(d) pounds of candy from Tasty Sweets.
  - **a.** [1 point] Write an equation that expresses the fact that it costs \$25 to buy 10 pounds of candy from Tasty Sweets.

Answer:

**b.** [1 point] Write an expression that gives the cost of purchasing k pounds of candy from Tasty Sweets.

Answer:

c. [2 points] Write an equation that expresses the fact that it costs \$10 more to buy 20 pounds of candy from the Candy Company than to buy 15 pounds of candy from the Candy Company.

Answer

d. [2 points] The Candy Company claims that purchasing twice as much candy always costs less than twice as much. Express this statement as an inequality involving C and p.

Answer:

e. [2 points] Interpret the meaning of the equation T(C(15)) = 20 in the context of this problem. (Use a complete sentence.)

13. [5 points] (Your score on this problem was determined when you took the LA Post-Test.)