Name:_____, I.D.:_____

IMPORTANT NOTE: SHOW COMPLETE WORK FOR FULL CREDIT.

1.1Q.1.(TB25). Business. Suppose that consumers will purchase q units of a product when the price is equal to $\left(\frac{80-q}{4}\right)$ dollars each.

How many units must be sold in order that sales revenue be equal to $\$\ 400?$

Number of Units:_____.

3.2Q.2. (TB19). Cost Equation. Suppose the cost to produce 10 units of a product is equal to $\$\ 40$ and the cost of 20 units is equal to $\$\ 70.$

If cost, $c,$ is linearly related to output, $q,$ find a linear equation relating c and $q.$

$c =$ _____ $q +$_____.