1. A company produces and sells copies of an accounting program for home computers. The total weekly cost (in dollars) to produce \( x \) copies of the program is \( C = 8x + 500 \), while the weekly revenue for selling all \( x \) programs is \( R = 35x - 0.1x^2 \). How many programs must it sell each week for its weekly profit to be $1,200.