The research department in a company that manufactures AM/FM clock radios established the following functions:

Revenue: $R(x) = -1.25x^2 + 50x$ and Cost: $C(x) = 160 + 10x$
where $x, 0 \leq x \leq 40$, is in thousands, and $R(x)$ and $C(x)$ are in thousands of dollars.

A. What is the production level of radios (to the nearest thousand) at which the company would reach its maximum revenue level.

B. Find the production level(s) of radios (to the nearest thousand) at which the company has break-even point(s). Sketch a simple graph and indicate your answers on the graph.

C. Will the company make a profit or a loss if it manufactures and sells 12,000 radios? Explain.