Situation:

The population of coyotes in Pennsylvania from 1955 – 2005 can be approximated using the equation, $y = 230x + 180$, where “x” represents the number of years (1955 ---> $x = 0$) and “y” represents the population.

The population of bald eagles in Pennsylvania from 1955 – 2005 can be approximated using the equation, $y = -90x + 9500$, where “x” represents the number of years (1955 ---> $x = 0$) and “y” represents the population.

Part A) What was the approximate coyote population in Pennsylvania in 1980? Show all work.

Part B) What was the approximate bald eagle population in Pennsylvania in 1990? Show all work.

Part C) In which year was the approximate coyote population 4,090? Show all work.
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Part D) In which year was the approximate bald eagle population 5,900? **Show all work.**

Part E) In which year was the approximate Pennsylvania populations of the coyote and the bald eagle nearly the same? **Show all work.** **EXPLAIN** what you did and why.

**Hint:** **Use a calculator and make a table!!**