To determine which graph shows that as women grow older they tend to have lower bone density, we need to look for a negative correlation between age and bone density score. A negative correlation means that as age increases, the bone density score decreases.

- \*\*Graph A\*\*: Shows a scatter of points with no clear trend.

- \*\*Graph B\*\*: Shows a scatter of points with a positive trend (as age increases, bone density score increases).

- \*\*Graph C\*\*: Shows a scatter of points with a negative trend (as age increases, bone density score decreases).

Given that lower scores correspond to lower bone density, the graph that correctly depicts this relationship is the one with a negative correlation.

Therefore, the correct answer is:

\*\*(C) Graph C\*\*