Compactness in metric spaces

1. $X$ is compact.
2. $X$ is "limit-point-compact".
3. $X$ is "sequentially compact".
4. $X$ is "totally bounded" & "satisfies Lebesgue's Lemma".
5. $X$ is totally bounded & "complete".

From Math 100 Topology of Nov 1, 2004 (2 hours):

http://katlas.math.toronto.edu/drorbn/notbook/show?page=0405-1300_P5120166.jpg