

A. Section 58 Exercise 2. (We don't yet know what the fundamental group of the figure eight is. That doesn't stop you from doing this problem.)

B. Section 58 Exercise 4. (We haven't defined *deformation retraction*, but Munkres does, and most of our homotopy equivalence examples are deformation retractions. As Munkres points out on page 365, this example is a homotopy equivalence that is not a deformation retraction.)

Looking for more practice? Exercises 58.3 and 58.5 should be doable.