Chapter 9 – Homework Solutions

4. d

12. a) The test statistic is $t = -1.646$. Using $\alpha = .05$, we get
   RR: Reject $H_0$ if $t > 2.052$ or if $t < -2.052$.
   Since the test statistic is not in the RR, we cannot show the 2 means differ.
   b) The confidence interval is -5.62 to .62. This also confirms there is not enough
      evidence the means differ.

36. a) Reject $H_0$ if $t < -1.341$
    b) $t = -3.5$, so we reject $H_0$
    c) the population of differences is normal
    d) (-10.506, -3.494)
    e) The confidence interval provides more information since it gives an interval of
       possible values for the difference between the two population means.