TT 14. *Foundations and Pre-calculus Mathematics 10* (Pearson), questions 10, 11, and 21.a) on pages 295 and 297 **Possible Solutions**

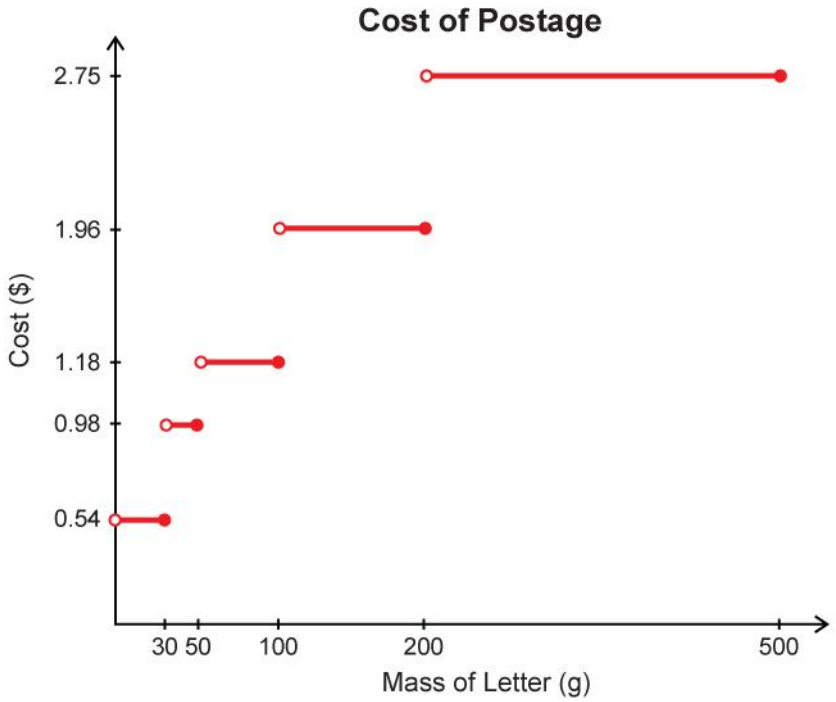
10. Only b), c), and d) should have graphs whose points are connected since all points on those graphs have meaning.

11. a) Graph A (part i) represents the distance a school bus is from the school between 8:00 and 9:00. Graph B (part ii) represents the number of students on a school bus between 8:00 and 9:00.

11. b) The independent variable in Graph A (part i) is time (h). The dependent variable is distance from school (km). For Graph B (part ii), the independent variable is time (h). The dependent variable is number of students.

11. c) The points are connected in Graph A (part i) because both time and distance are continuous variables. The points are not connected in Graph B (part ii) because the number of students is discrete, so you cannot have meaningful in-between points such as (8:40, 2.4 children).

21. a)



Only the points related to the same letter-mass interval were joined.