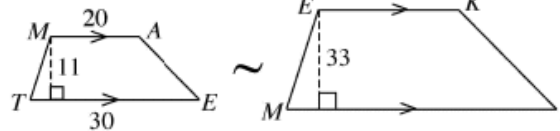


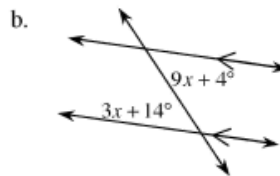
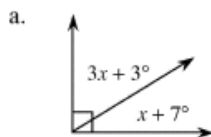
Review & Preview

4-43. The trapezoids at right are similar.



- a. What is the ratio of the heights?
- b. Compare the areas. What is the ratio of the areas?

4-44. For each diagram below, write an equation and solve for x , if possible.



4-45. Joan and Jim are planning a dinner menu including a main dish and dessert. They have 4 main dish choices (steak, tuna casserole, turkey burgers, and lasagna) and 3 dessert choices (brownies, ice cream, and chocolate chip cookies.) How many different dinner menus do they have to choose from? List all of the possible menus.

4-46. Leon is standing 60 feet from a telephone pole. As he looks up, a red-tailed hawk lands on the top of the pole. Leon's angle of sight up to the bird is 22° and his eyes are 5.2 feet above the ground.



- a. Draw a detailed picture of this situation. Label with all of the given information.
- b. How tall is the pole? Show all of your work.

4-47. Find the value of x in the triangle at right. Refer to problem 4-8 for help. Show all work.

