



A **concours d'élégance** is a competition in which a maximum of 100 points is awarded to a car based on its general attractiveness.

The cost, in thousands of dollars, of restoring a car so that it will win x points is

$$\frac{1010 - 10(101 - x)}{49(101 - x)}$$

Use these questions to generate a discussion – do

not answer every question – leave something for others to talk about:

Pick some values for x such as 90, 91, 80, 100 etc. What is happening as x increases? What does this indicate for the owner of this car? What would you do if you were showing your classic car? Would there ever be an undefined value for this problem? Does that make sense in terms of the problem? What makes this problem applicable to what we've learned in Chapter 6?