BLM 7-1

Chapter 7 Problems of the Week

- 1. Lucy makes \$9/h and time and a half for every hour she works over 40 h per week.
 - a) What is Lucy's regular pay for a 40 h work week?

b) How much does Lucy make for each hour of overtime?

c) Lucy worked a total of *n* hours. Complete the expression for the number of hours overtime.



d) Write a polynomial for her maximum weekly income.



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BLM 7-1

- (continued)
- **2.** A circle of radius *x* shares a centre point, C, with a circle of radius 2*x*.
 - **a)** Write a polynomial for the area of each circle.

Circle with radius *x*:



Circle with radius 2x:

b) What is the ratio of the area of the circle of radius *x* to the area of the circle of radius 2*x*?

c) Write the ratio in simplest form.

