

Name _____

12-7A Lesson Master**Questions on SPUR Objectives**

See pages 773–775 for objectives.

SKILLS Objective C

In 1 and 2, an equation for a function is given.

- Identify the x -intercepts of its graph.
- Write the equation in standard form.

1. $y = 2(x + 4)(x - 3)(x - 10)$

a. _____

b. _____

2. $g(x) = -5x(x + 1)(x - 1)$

a. _____

b. _____

PROPERTIES Objective F

In 3 and 4, suppose the graph of a polynomial function has the given intercepts.

- Write an equation in factored form for the polynomial function.
- Rewrite your equation from Part a in standard form.

3. $-2, 4, 7$

a. _____

b. _____

4. $-5, 0, 2, \frac{7}{2}$

a. _____

b. _____

5. *Multiple Choice.* Which equation represents the graph below?

A $y = 2(x + 5)(x - 1)(x - 6)$

B $y = -2(x + 5)(x - 1)(x - 6)$

C $y = 2(x - 5)(x + 1)(x + 6)$

D $y = -2(x - 5)(x + 1)(x + 6)$

