

Name _____

12-4A Lesson Master

Questions on SPUR Objectives
See pages 773–775 for objectives.

SKILLS Objective B

In 1-4, factor completely.

1. $x^2 + 9x + 20$ _____ 2. $m^2 - 5m - 14$ _____

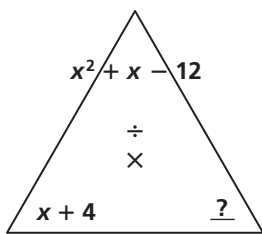
3. $a^2 - 11a + 24$ _____ 4. $-4n^4 - 6n^3 - 16n^2$ _____

5. a. Factor $a^2 - 11a + 18$. a. _____

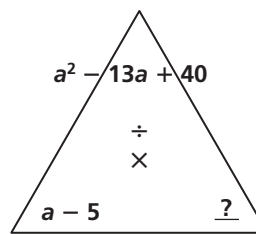
b. What are the x -intercepts of the graph of $y = a^2 - 11a + 18$? b. _____

6. Fill in the blanks.

a.



b.



PROPERTIES Objective E

In 7 and 8, an expression is given.

- a. For how many integer values of b is the expression factorable?
- b. Give the value(s) of b that allow(s) the expression to be factored.

7. $m^2 + bm + 13$
a. _____
b. _____

8. $y^2 + by - 24$
a. _____
b. _____

9. Which expression(s) below is/are prime polynomials? _____

- A $x^2 + 8x + 15$ B $m^2 - 4m + 2$ C $a^2 + 10a - 21$

10. Find a value of c for which the expression $n^2 + 8n + c$ is factorable over the integers. _____