

Name \_\_\_\_\_

Date \_\_\_\_\_

**Polynomial Multiplication - Matching Worksheet**

Write the letter of the answer that matches the product of each expression.  
Simplify your answer.

\_\_\_\_\_ 1.  $(3 + 7x)(6 + 2x)$

a.  $(-50 + 2x^2)$

\_\_\_\_\_ 2.  $(2u^3 - 5u^2 - 7u)(3u^3 + 4u^2)$

b.  $42y^4 + 84y^3 + 42y^2$

\_\_\_\_\_ 3.  $(x + 3)(2x^2 + 10x + 1)$

c.  $6u^6 - 7u^5 - 41u^4 - 28u^3$

\_\_\_\_\_ 4.  $(-6y^2 - 6y)(-7y^2 - 7y)$

d.  $18 + 48x + 14x^2$

\_\_\_\_\_ 5.  $(5 + x)(2x + -10)$

e.  $-28u^3 + -41u^4 + -7u^5 + 6u^6$

\_\_\_\_\_ 6.  $(2k^3 - 4k^2 - 4k)(7k^2 + 2k)$

f.  $-14y^4 + 8y^3$

\_\_\_\_\_ 7.  $(x + -1x^2)(x^2 + -1x)$

g.  $2x^3 + 16x^2 + 31x + 3$

\_\_\_\_\_ 8.  $(2u^3 - 5u^2 - 7u)(3u^3 + 4u^2)$

h.  $(-1x^2 + 2x^3 + -1x^4)$

\_\_\_\_\_ 9.  $(jk + xy)(7jk + 9xy)$

i.  $14k^5 - 24k^4 - 36k^3 - 8k^2$

\_\_\_\_\_ 10.  $(-2y)(7y^3 - 4y^2)$

j.  $(16jkxy + 7j^2k^2 + 9x^2y^2)$

