

Algebra I
Homework #2 Lesson 9-2
Multiplying Binomials

Name Key
Date _____ Hour _____

Simplify each product using the distributive property.

1. $(x + 5)(x + 2)$

$$x^2 + 7x + 10$$

2. $(2x - 1)(x + 2)$

$$2x^2 + 3x - 2$$

3. $(k + 7)(k - 6)$

$$k^2 + k - 42$$

4. $(9x + 6)(3x - 5)$

$$27x^2 - 27x - 30$$

Simplify each product using the box method.

5. $(x + 9)(x^2 - 4x + 1)$

$$x^3 + 5x^2 + 35x + 9$$

6. $(-7 + p)(8 + p)$

$$-56 + p + p^2$$

$$p^2 + p - 56$$

7. $(5c - 9)(5c + 1)$

$$25c^2 - 46c - 9$$

8. $(9y^2 + 2)(y^2 - y - 1)$

$$9y^4 - 9y^3 - 7y^2 - 2y - 2$$

9. Find the area of the shaded region.

