

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Multiplying Polynomials Algebra 1 Homework

### Skill

Find each of the following products in simplest form.

1.  $(x-2)(x-3) =$

2.  $(y+6)(y-1) =$

3.  $(a+5)(a+3) =$

4.  $(r+4)(r+5) =$

5.  $(2x-3)(x+5) =$

6.  $(2x-9)(x+3) =$

7.  $(y-7)(y-2) =$

8.  $(2a+5)(3a+7) =$

9.  $(x-3)(x+8) =$

10.  $(x+5)(x-9) =$

11.  $(3x+10)(x-5) =$

12.  $(5+x)(x+7) =$

13.  $(6-x)(4+x) =$

14.  $(3-2x)(4+3x) =$

15.  $(9+x)(8+x) =$

16.  $(2-x)(3-5x) =$

17.  $(x+4)(x-4) =$

18.  $(x-7)(x+7) =$

19.  $(y+2)(y-2) =$

20.  $(4x+3)(4x-3) =$

21.  $(5+x)(5-x) =$

22.  $(3-y)(3+y) =$

23.  $(4x+1)(4x-1) =$

24.  $(x+2)^2 =$

25.  $(x-6)^2 =$

26.  $(4x+1)^2 =$

27.  $(3x-2)^2 =$

28.  $(6x+1)^2 =$

### Applications

29. If the side length of a square is given by the binomial  $(4x-3)$  then which of the following gives the square's area?

(1)  $8x+6$

(3)  $16x^2 + 24x + 9$

(2)  $16x^2 - 9$

(4)  $16x^2 - 24x + 9$