Name: Key Date: _____ Period: _____

5.4 Special Products CYU

☑ Use when you get it right all by yourself

S Use when you did it all by yourself, but made a silly mistake

H Use when you could do it alone with a little help from teacher or peer

G Use when you completed the problem in a group

X Use when a question was attempted but wrong (get help)

N Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
FOILing Method	1 – 4, 7 – 10, 16 - 18	5, 6, 11 – 14, 24, 25	15, 19 - 23
Standard form of a polynomial expression	1 – 4, 7 – 10, 16 - 18	5, 6, 11 – 14, 24, 25	15, 19 - 23
Determining the degree of a polynomial expressions	1 – 4, 7 – 10, 16 - 18	5, 6, 11 – 14, 24, 25	15, 19 - 23

Use the FOILing Method to multiply. Write your answer in standard form. State the degree. Show all work to earn full credit.

1. $(x-3)(x+4)$

x^2+x-12

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

$x^2-3x-10$

3. $(5x-7)(x-2)$

$5x^2-17x+14$

4. $(4x-9)(x-1)$

$4x^2-13x+9$

5. $2(y+6)(2y-1)$

$4y^2+22y-12$

6. $3(x+5)(3x-1)$

$9x^2+42x-15$

7. $(3y+1)^2$

$9y^2+6y+1$

8. $(4x-1)^2$

$16x^2-8x+1$

9. $(g+2)^2$

g^2+4g+4

10. $(p-q)^2$

$p^2-2pq+q^2$

11. $(2x+5)^2$

$4x^2+20x+25$

12. $(x^2-7y)^2$

$x^4-14x^2y+49y^2$

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

$4x^2-64$

14. $(6h+7)(6h-7)$

$36h^2-49$

15. $\left(x-\frac{1}{4}\right)\left(x+\frac{1}{4}\right)$

$x^2-\frac{1}{16}$

16. $(2q-p)(2q+p)$

$4q^2-p^2$

17. $(x-5)(3x+4)$

$3x^2-11x-20$

18. $(7x+4)^2$

$49x^2+56x+16$

19. $(y-0.6)(y+0.6)$

$y^2-0.36$

20. $\left(y^4+\frac{2}{5}\right)\left(3y^2-\frac{1}{5}\right)$

$3y^6-\frac{1}{5}y^4+\frac{6}{5}y^2-\frac{2}{25}$

21. $(a-3)(a^2+2a-1)$

a^3-a^2-7a+3

22. $(x+1)(x^2+5x-2)$

x^3+6x^2+3x-2

23. $\left(x^2-\frac{3}{7}\right)\left(3x^4+\frac{2}{7}\right)$

$3x^6-\frac{9}{7}x^4+\frac{2}{7}x^2-\frac{6}{49}$

24. $(b+3)^2$

b^2+6b+9

25. $(a^2-5b)^2$

$a^4-10a^2b+25b^2$

CYU Reflection: *How far can you go: basic, intermediate, or advanced?*

Rate your mastery level!

How confident are you with the skills this CYU covered? Circle the score you would give yours elf.