

Name _____

Date _____ Pd. _____

Notes: Multiplying Polynomials Continued**Example 1** Find $(x + 3)(x - 4)$.**Horizontal Method****Vertical Method****Example 2** Find $(x - 2)(x + 5)$ using the FOIL method.**Example** Find $(3x + 2)(2x^2 - 4x + 5)$.

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Exit Card: Multiplying Polynomials Continued

In the simplified product of $(2x+5)(3x+7)$,
what is the coefficient of the x term?

	/	/	/	
•	•	•	•	•
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

How many terms are in the simplified product of $(x-2)(x^2+2x+4)$?

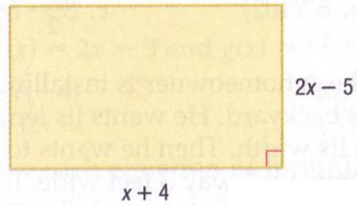
	/	/	/	
•	•	•	•	•
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

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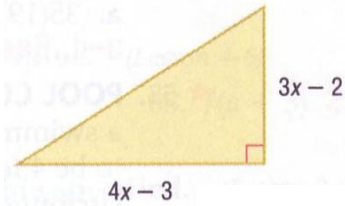
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Homework: Pages 456 – 457 (39, 40, 48 – 51, 56, 57)

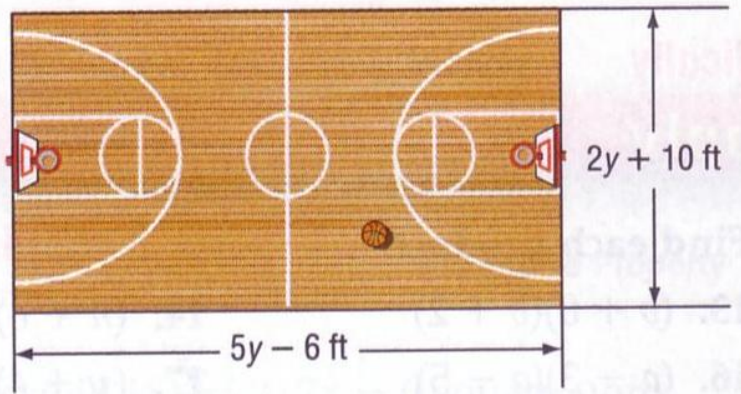
39. Write an expression for the area.



40. Write an expression for the area.



48. The dimensions of a professional basketball court are represented by a width of $2y + 10$ feet and a length of $5y - 6$ feet. Find an expression for the area of the court.



Latanya's modular office is square. Her office in the company's new building will be 2 feet shorter in one direction and 4 feet longer in the other.

49. Write expressions for the dimensions of Latanya's new office.
50. Write a polynomial expression for the area of her new office.
51. Suppose her office is presently 9 feet by 9 feet. Will her new office be bigger or smaller than her old office and by how much?

56. $(x+2)(x-4) - (x+4)(x-2) =$

A 0

B $2x^2 + 4x - 16$

C $-4x$

D $4x$

57. The expression $(x-y)(x^2+xy+y^2)$ is equivalent to which of the following?

A $x^2 - y^2$

B $x^3 - y^3$

C $x^3 - xy^2$

D $x^3 - xy^2 + y^2$