

Name _____

Date _____ Pd. _____

Notes: Factor Trinomials Continued**Example**Solve $12x^2 + 3x = 2 - 2x$. Check your solutions.**Solve each equation. Check your solutions.**

1. $8x^2 + 2x - 3 = 0$

2. $3n^2 - 2n - 5 = 0$

3. $2d^2 - 13d - 7 = 0$

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Exit Card: Factor Trinomials Continued

What is the sum of the factors of $3x^2 - 5x - 2$?

- A. $4x-1$ B. $4x+1$ C. $7x+1$ D. $7x-1$

A pyramid is made up of cubes. A formula for the total number of cubes to build n levels is $C(n) = 2n^2 - n$. If there are 66 cubes in the pyramid, how many levels are there?

	⊗	⊗	⊗	
⊙	⊙	⊙	⊙	⊙
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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Homework: Pages 499 – 500 (39, 41, 42, 49 – 51, 54, 55)

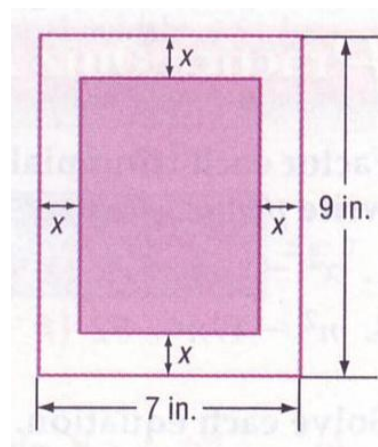
39. $14n^2 = 25n + 25$

41. $6x^2 - 14x = 12$

42. $21x^2 - 6 = 15x$

A rectangle with an area of 35 square inches is formed by cutting off strips of equal width from a rectangular piece of paper.

49. Find the width of each strip.



50. Find the dimensions of the new rectangle.

51. Suppose a diver leaps from the edge of a cliff 80 feet above the ocean with an initial upward velocity of 8 feet per second. How long will it take the diver to enter the water below [Hint: $h = -16t^2 + vt + s$].

54. What are the solutions of $2p^2 - p - 3 = 0$?

- A $-\frac{2}{3}$ and 1 B $\frac{2}{3}$ and -1 C $-\frac{3}{2}$ and 1 D $\frac{3}{2}$ and -1

55. Suppose a person standing atop a building 398 feet tall throws a ball upward. If the person releases the ball 4 feet above the top of the building, the ball's height h , in feet, after t seconds is given by the equation $h = -16t^2 + 48t + 402$. After how many seconds will the ball be 338 feet from the ground?

- A 3.5 B 4 C 4.5 D 5