

Algebra 1 Test Review - Factoring Polynomials (version 2)

Factor the polynomial expressions:

$$x^2 - 7x - 18$$

$$(x-9)(x+2)$$

$$5x^2 - 125$$

$$5(x^2 - 25)$$

$$5(x+5)(x-5)$$

$$-x^2 - 5x - 6$$

$$-1(x^2 + 5x + 6)$$

$$-1(x+3)(x+2)$$

$$6a^2b + 17ab + 12b$$

$$b(6a^2 + 17a + 12)$$

$$b(6a^2 + 9a + 8a + 12)$$

$$3a(2a+3) + 4(2a+3)$$

$$\begin{array}{c} 9 \times 3 = 27 \\ 12 \times 2 = 24 \end{array}$$

$$b(3a+4)(2a+3)$$

Find the zeros:

$$4x^2 + 3x - 10$$

$$4x^2 + 8x - 5x - 10$$

$$4x(x+2) - 5(x+2)$$

$$(4x-5)(x+2)$$

$$\begin{array}{c} 4 \times 5 = 20 \\ 3 \times -2 = -6 \end{array}$$

$$\begin{array}{l} x = -2 \\ x = \frac{5}{4} \end{array}$$

Solve the equations:

$$(4x-7)(x+2) = 0$$

$$4x-7=0 \quad x+2=0$$

$$\frac{4x}{4} = \frac{7}{4} \quad x = -2$$

$$\begin{array}{l} x = -2 \\ x = \frac{7}{4} \end{array}$$

$$-6x^2 + 54x$$

$$-6x(x^2 - 9)$$

$$-6x(x+3)(x-3)$$

$$\begin{array}{l} x = 0 \\ x = -3 \\ x = 3 \end{array}$$

$$x^2 - 2x = 15$$

$$x^2 - 2x - 15$$

$$(x-7)(x+5)$$

$$x = 7 \quad x = -5$$

$$\begin{array}{l} x = 7 \\ x = -5 \end{array}$$

$$7x^2 - 28x + 21$$

$$7(x^2 - 4x + 3)$$

$$7(x-3)(x-1)$$

$$\begin{array}{l} x = 3 \\ x = 1 \end{array}$$

Find the width of the rectangle, given that the area is 520 square inches.

$$2x(x+7) = 520$$

$$2x^2 + 14x = 520$$

$$2x^2 + 14x - 520$$

$$2(x^2 + 7x - 260)$$

$$2(x+20)(x-13)$$



$x+7$ call the rectangle

$$x = -20$$

$$x = 13$$

$$13 \cdot 2 = 26 \text{ in}$$

Algebra 1 Factoring Review Key

**Raleigh Schorling, John Roscoe
Clark, Rolland Ryther Smith**



Algebra 1 Factoring Review Key:

Math Is Easy So Easy, Combo Book: 7th Grade Math, Algebra I, Geometry I, Algebra II, Math Analysis, Calculus Nathaniel Max Rock, 2008-02 Rock separates math topics into those which are essential and nonessential so that the struggling math student can focus on the math topics which will return the greatest effect in the shortest amount of time

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