

The logo features the word "JEOPARDY!" in a bold, white, sans-serif font. The text is centered within a yellow, rounded rectangular border that has a slight 3D effect, with a darker yellow shadow on the top and bottom edges. The entire logo is set against a solid blue background.

JEOPARDY!

Simplifying
Radicals
and
Polynomials

Graphs of
Quadratic
Functions

Factoring

Finding
Solutions

Completing
the Square,
Quadratic
Formula

POTPOURRI

\$100

\$100

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\$400

\$500

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\$500

\$500

GO TO FINAL JEOPARDY



Simplifying Radicals and Polynomials
\$100

Simplify.

$$(2x^3 - 5x - 7x^2) + (3 - 6x^2 + 9x)$$

RETURN
TO
JEOPARDY
BOARD

Simplifying Radicals and Polynomials
\$200

Simplify the radical expression.

$$\sqrt{\frac{48}{5}}$$

RETURN
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JEOPARDY
BOARD

Simplifying Radicals and Polynomials
\$300

Simplify the expression.

$$\sqrt{-40}$$

RETURN
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JEOPARDY
BOARD

Simplifying Radicals and Polynomials
\$400

Write the Quadratic
in standard form.

$$(3x - 2)^2$$

RETURN
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BOARD

Simplifying Radicals and Polynomials
\$500

Simplify.

$$3\sqrt{-48} \bullet 4i\sqrt{54}$$

RETURN
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JEOPARDY
BOARD

Graphs of Quadratic Functions
\$100

Find the x -intercepts of:

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

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JEOPARDY
BOARD

Graphs of Quadratic Functions
\$200

Find the Vertex Form
and Vertex of the
quadratic equation:

$$y = 2x^2 - 4x - 2$$

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RETURN
TO
JEOPARDY
BOARD

Graphs of Quadratic Functions
\$300

Find the x -intercept(s)
of: $y = x^2 - 2x + 1$

RETURN
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JEOPARDY
BOARD

Graphs of Quadratic Functions
\$400

Find the zeros of:

$$y = 5x^2 - 80$$

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BOARD

Graphs of Quadratic Functions
\$500

Find the vertex form and
vertex of:

$$y = 2x^2 + 4x - 10$$

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BOARD

Factoring
\$100

Factor:

$$x^2 - 7x - 30$$

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JEOPARDY
BOARD

Factoring
\$200

Factor Completely:

$$36x^2 - 4x$$

RETURN
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JEOPARDY
BOARD

Factoring
\$300

Factor completely.
(Be careful!!)

DAILY DOUBLE

$$6x^2 + 32x - 24$$

RETURN
TO
JEOPARDY
BOARD

Factoring
\$400

Factor

$$8x^2 - 26x + 15$$

RETURN
TO
JEOPARDY
BOARD

Factoring
\$500

Factor Completely:

$$1 - 81x^4$$

RETURN
TO
JEOPARDY
BOARD

Finding Solutions
\$100

Solve:

$$0 = (x - 4)(2x + 3)$$

RETURN
TO
JEOPARDY
BOARD

Finding Solutions
\$200

Find the zeros:

$$2x^2 = 144$$

RETURN
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JEOPARDY
BOARD

Finding Solutions
\$300

Solve by factoring:

$$0 = 3x^3 - 75x$$

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JEOPARDY
BOARD

Finding Solutions
\$400

Find the x -intercept(s) of
the quadratic equation:

$$2x^2 + 16x = -32$$

RETURN
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JEOPARDY
BOARD

Finding Solutions
\$500

Solve

$$14 = \frac{1}{2}(x + 8)^2$$

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JEOPARDY
BOARD

Completing the Square &
Quadratic Formula
\$100

Find the value of c that makes the expression a perfect square trinomial. Then write the expression as the square of a binomial.

$$x^2 + 10x - c$$

RETURN
TO
JEOPARDY
BOARD

Completing the Square &
Quadratic Formula
\$200

Solve the equation by
completing the square.

$$x^2 - 16x - 2 = 0$$

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JEOPARDY
BOARD

Completing the Square &
Quadratic Formula
\$300

Solve with Quadratic Formula.

$$-2x^2 + 3x = 7$$

RETURN
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JEOPARDY
BOARD

Completing the Square &
Quadratic Formula
\$400

Solve by completing the square.

$$5x^2 + 10x = -3$$

RETURN
TO
JEOPARDY
BOARD

Completing the Square &
Quadratic Formula
\$500

Use the quadratic formula to
solve the equation.

$$x^2 + 29 = -4x$$

RETURN
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JEOPARDY
BOARD

Use the discriminant to
give the number
and type of zeros.

$$-2x^2 - 7 = -3x$$

A model rocket will be launched from a hill 80 feet above sea level.

The launch site is next to the ocean (sea level) and the rocket will fall into the ocean. The rocket's distance s , above sea level at any time, t , is found by the equation $s = -16t^2 + 64t + 80$. Find the time it takes for the rocket to strike the ocean.

Describe the nature of the
roots of

$$5x^2 + 3 = -10x$$

RETURN
TO
JEOPARDY
BOARD

The length Joe's kitchen floor is 4 feet more than the width.
The area is 117 square feet.
What are the dimensions of Joe's kitchen?

A rectangular prism has a length that is five less than the width.

The volume of the prism is $2x^3 - 7x^2 - 15x$. Find the height of the prism.

FINAL JEOPARDY!



An equation of a quadratic
that has the solutions
 $-1/2$ and 7 .

(written in standard form)