<!DOCTYPE html>

<html lang="pt-BR">

<head>

<meta charset="UTF-8">

<title>Jogo dos Polinômios</title>

<style>

body { font-family: Arial, sans-serif; text-align: center; background: #f4f4f9; }

.card { background: #fff; max-width: 500px; margin: 50px auto; padding: 20px; border-radius: 12px; box-shadow: 0px 4px 10px rgba(0,0,0,0.2); }

button { padding: 10px 20px; margin: 10px; border: none; border-radius: 8px; background: #4CAF50; color: #fff; cursor: pointer; font-size: 16px; }

button:hover { background: #45a049; }

#feedback { margin-top: 15px; font-weight: bold; }

</style>

</head>

<body>

<div class="card">

<h1>🎲 Jogo dos Polinômios</h1>

<p id="question">Clique em "Nova Pergunta" para começar.</p>

<div id="options"></div>

<button onclick="newQuestion()">Nova Pergunta</button>

<p id="feedback"></p>

<p>Pontuação: <span id="score">0</span></p>

</div>

<script>

const questions = [

{ q: "Qual o grau do polinômio P(x) = 5x^4 - 2x^2 + 7?", options: ["2", "4", "5", "7"], answer: "4" },

{ q: "No polinômio Q(x) = 2x^3 + 4x^2 - x + 9, o coeficiente do termo de grau 2 é:", options: ["2", "4", "-1", "9"], answer: "4" },

{ q: "Fatore: x² - 9", options: ["x²+9", "(x-3)(x+3)", "(x-9)(x+1)", "x(x-9)"], answer: "(x-3)(x+3)" },

{ q: "Qual é o valor de P(x) = x² - 3x + 2 em x=2?", options: ["0", "2", "4", "-2"], answer: "0" },

{ q: "O polinômio R(x) = 7x⁵ - 3x³ + 2 tem grau:", options: ["3", "5", "7", "2"], answer: "5" },

{ q: "O coeficiente líder de S(x) = -6x⁴ + x² - 5 é:", options: ["-6", "1", "-5", "4"], answer: "-6" },

{ q: "O termo independente de T(x) = 3x³ - 4x + 9 é:", options: ["3", "-4", "9", "0"], answer: "9" },

{ q: "Fatore: x² + 2x + 1", options: ["(x+1)²", "(x-1)²", "(x+2)(x-1)", "x(x+1)"], answer: "(x+1)²" },

{ q: "Resolva: P(x) = x² - 5x + 6 = 0", options: ["x=2 ou x=3", "x=1 ou x=6", "x=-2 ou x=-3", "x=0 ou x=6"], answer: "x=2 ou x=3" },

{ q: "Se P(x) = (x-1)(x+2), então P(1) =", options: ["0", "1", "-1", "2"], answer: "0" }

];

let score = 0;

function newQuestion() {

document.getElementById("feedback").innerText = "";

const qIndex = Math.floor(Math.random() \* questions.length);

const current = questions[qIndex];

document.getElementById("question").innerText = current.q;

const optionsDiv = document.getElementById("options");

optionsDiv.innerHTML = "";

current.options.forEach(opt => {

const btn = document.createElement("button");

btn.innerText = opt;

btn.onclick = () => checkAnswer(opt, current.answer);

optionsDiv.appendChild(btn);

});

}

function checkAnswer(selected, correct) {

if (selected === correct) {

score++;

document.getElementById("feedback").innerText = "✅ Correto!";

} else {

document.getElementById("feedback").innerText = "❌ Errado! Resposta: " + correct;

}

document.getElementById("score").innerText = score;

}

</script>

</body>

</html>