

Sprawozdanie Zadanie 3

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Zmodyfikowany kod:

```
knot_vectorx = [0 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15];
knot_vectory = [0 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 15];
weights = [
    0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1;
    0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 1;
    1 1 1 1 0 1 0 1 1 1 1 1 1 1 1 0 1;
    1 0 0 1 0 1 0 1 0 0 0 0 0 0 1 0 1;
    1 0 1 1 0 1 0 1 0 1 1 1 0 1 0 1 1;
    1 0 1 0 0 0 0 1 0 1 0 0 0 0 1 0 1;
    1 0 1 1 1 1 0 1 0 1 1 1 0 1 0 1 1;
    1 0 0 0 0 1 0 1 0 0 0 0 1 0 1 0 1;
    1 1 1 1 0 1 0 1 1 1 0 1 0 1 0 1 1;
    1 0 0 1 0 1 0 0 0 1 0 1 0 0 0 0 1;
    1 0 1 1 0 1 1 1 0 1 0 1 1 1 0 1 1;
    1 0 0 0 0 0 0 1 0 1 0 0 0 0 1 0 1;
    1 1 1 1 1 1 0 1 0 1 1 1 0 1 0 1 1;
    1 0 0 0 0 1 0 1 0 0 0 0 0 0 1 0 1;
    1 0 1 1 0 1 0 1 1 1 1 1 0 1 0 1 1;
    1 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0;
];
```

```
M = zeros(length(x), length(y));
for i = 1:nrx
    for j = 1:nry
        computed_spline = compute_spline(knot_vectorx, px, i, X) .* compute_spline(knot_vector, py, j, Y);
        M = M + weights(i, j) * computed_spline;
    end
end
```

Wyniki:

