

```

1:
2: a)
3: int soma = 0;
4: for (int i=0; i<n; i++)
5: soma = soma + i;
6: /*
7:
8:  $f(x)=n+2$ 
9: melhor e pior caso sao equivalentes
10: */
11: b)
12: int soma1 = 0;
13: int soma2 = 0;
14: for (int i=0; i<n; i++){
15: soma1 = soma1 + 1;
16: soma2 = soma2 + i;
17: }
18: /*
19:  $f(x)=n+4$ 
20: melhor e pior caso sao equivalentes
21:
22: */
23:
24: c)
25: int soma = 0;
26: for (int i=0; i<n; i++){
27: if (vetor[i] % 2 == 0) //se for par
28: soma = soma + vetor[i];
29: }
30: /*
31:  $f(x)=n+2$ 
32: melhor caso se não houver numeros pares
33: pior caso se todos os numeros forem pares
34:
35: */
36: d)
37: int soma1 = 0;
38: for (int i=0; i<n; i++){
39: soma1 = soma1 + 1;
40: }
41: for (int j=0; j<n; j++){
42: soma1 = soma1 + j;
43: }
44: /*
45:  $f(x)=2n+3$ 
46: melhor e pior caso sao equivalentes
47:
48: */
49: 1
50:
51: e)
52: int soma = 0;
53: for (int i=0; i<n; i++){
54: for (int j=0; j<n; j++){
55: soma = soma + 1;
56: }
57: }
58: /*
59:  $f(x)=n^2+2$ 
60: melhor caso n ser um valor pequeno

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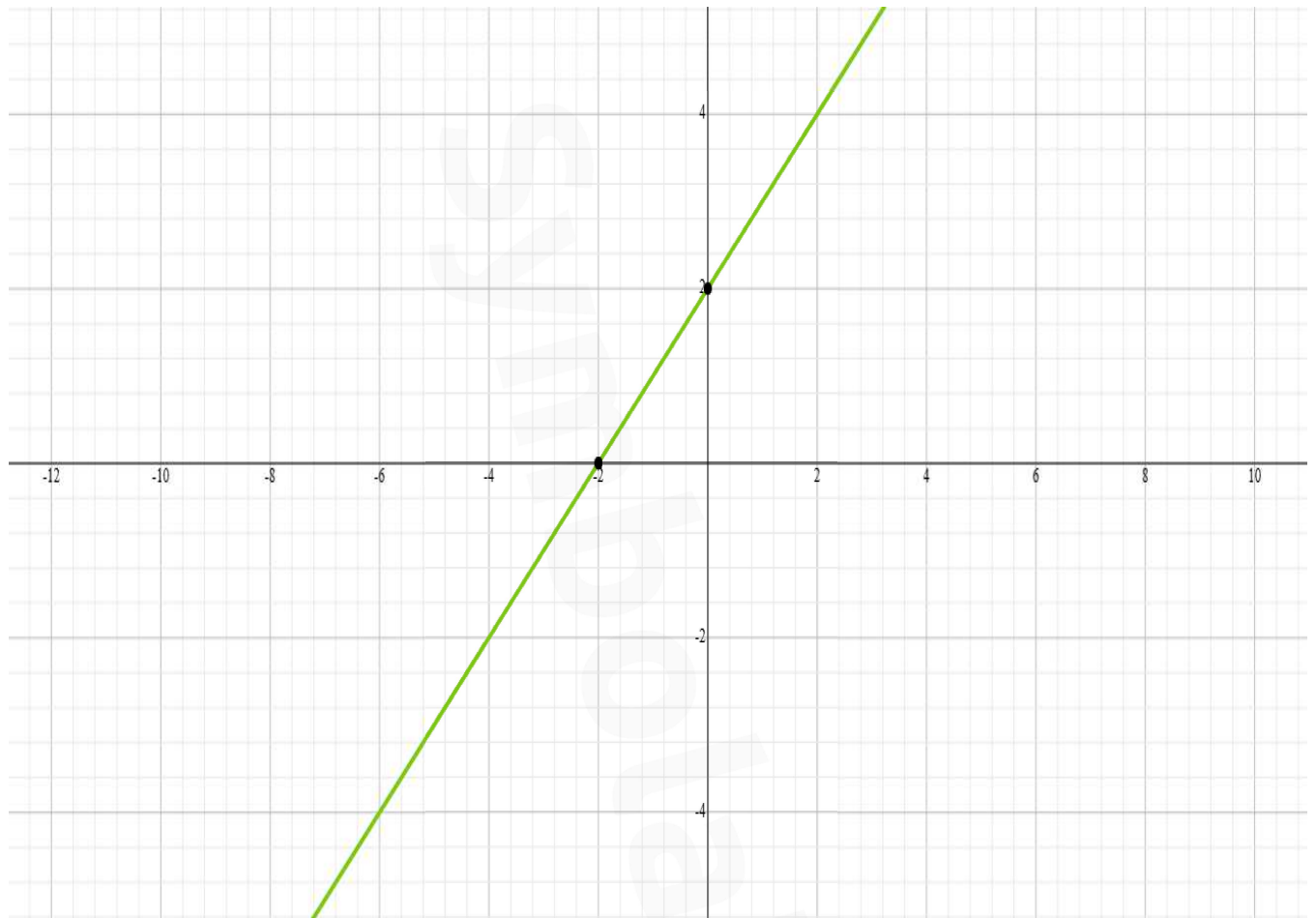
61: pior caso n ser muito grande
62:
63:
64:
65: */
66: f)
67: int soma = 0;
68: for (int i=0; i<n; i++){
69: for (int j=0; j<m; j++){
70: soma = soma + 1;
71: }
72: }
73: /*
74:  $f(x)=n*m+2$ 
75: melhor caso n e m serem valores pequenos
76: pior caso n ou m ser um valor muito grande
77:
78:
79: */
80: g)
81: int menor = MAIOR-INTEIRO;
82: for (int i=0; i<n; i++){
83: if (vetor[i] < menor)
84: menor = vetor[i];
85: }
86: /*
87:  $f(x)=n+2$ 
88: melhor caso o primeiro numero ser o menor
89: pior caso o menor numero ser o ultimo
90:
91:
92: */
93: h)
94: int v[][] = new int[n][n];
95: for (int i=0; i<n; i++){
96: for (int j=0; j<n; j++){
97: v[i][j] = i+j;
98: }
99: }
100: /*
101:  $f(X)=n^2+2$ 
102: melhor caso n ser um valor pequeno
103: pior caso n ser muito grande sao equivalentes
104:
105: */
106:
107: i)
108: int menor = MAIOR-INTEIRO;
109: for (int i=0; i<n; i++){
110: if (vetor[i] < menor)
111: menor = vetor[i];
112: }
113: if (menor < 0){
114: for (int i=0; i<n; i++){
115: menor = menor * (i+1);
116: }
117: }
118: /*
119:  $f(X)=2n+3$ 
120: melhor caso menor nao ser um valor positivo e menor que o primeiro elemento do

```

```

121: pior caso n ser negativo e maior que o primeiro elemento do vetor
122:
123:
124: */
125: j)
126: int menor = MAIOR-INTEIRO;
127: for (int i=0; i<n; i++){
128: if (vetor[i] < menor)
129: menor = vetor[i];
130: }
131: if (menor < 0){
132: for (int i=0; i<n; i++){
133: menor = menor * (i+1);
134: }
135: }else if (menor > 0){
136: for (int i=0; i<n*n; i++)
137: printf("%d\n", menor);
138: } else {
139: printf("%d\n", menor);
140: }/*
141: f(X)=3n+5
142: melhor caso vetor ordenado e menor possuir valor positivo
143: pior caso vetor desordenado e menor possuir valor negativo
144:
145:
146:
147: */

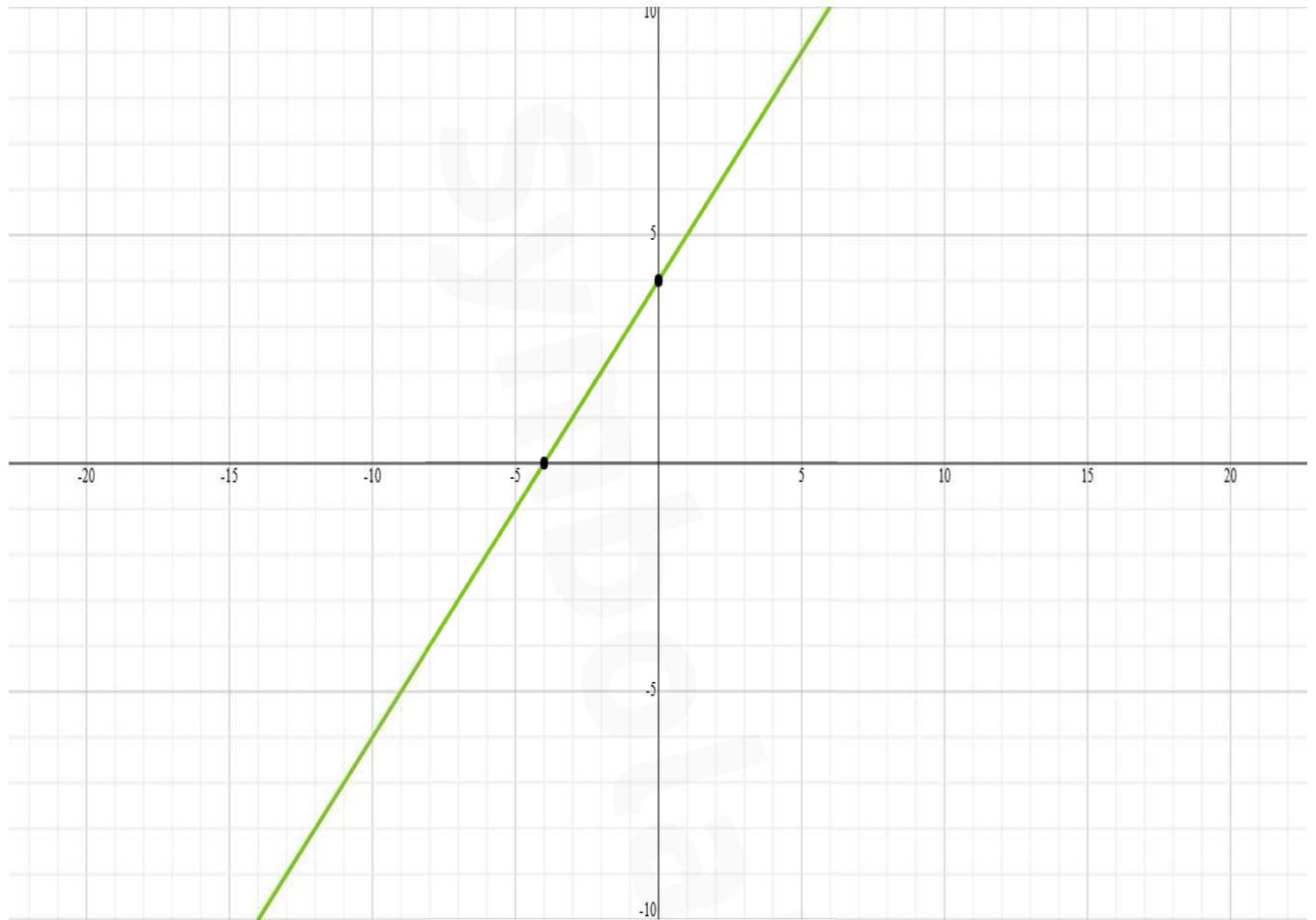
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● $n + 2$

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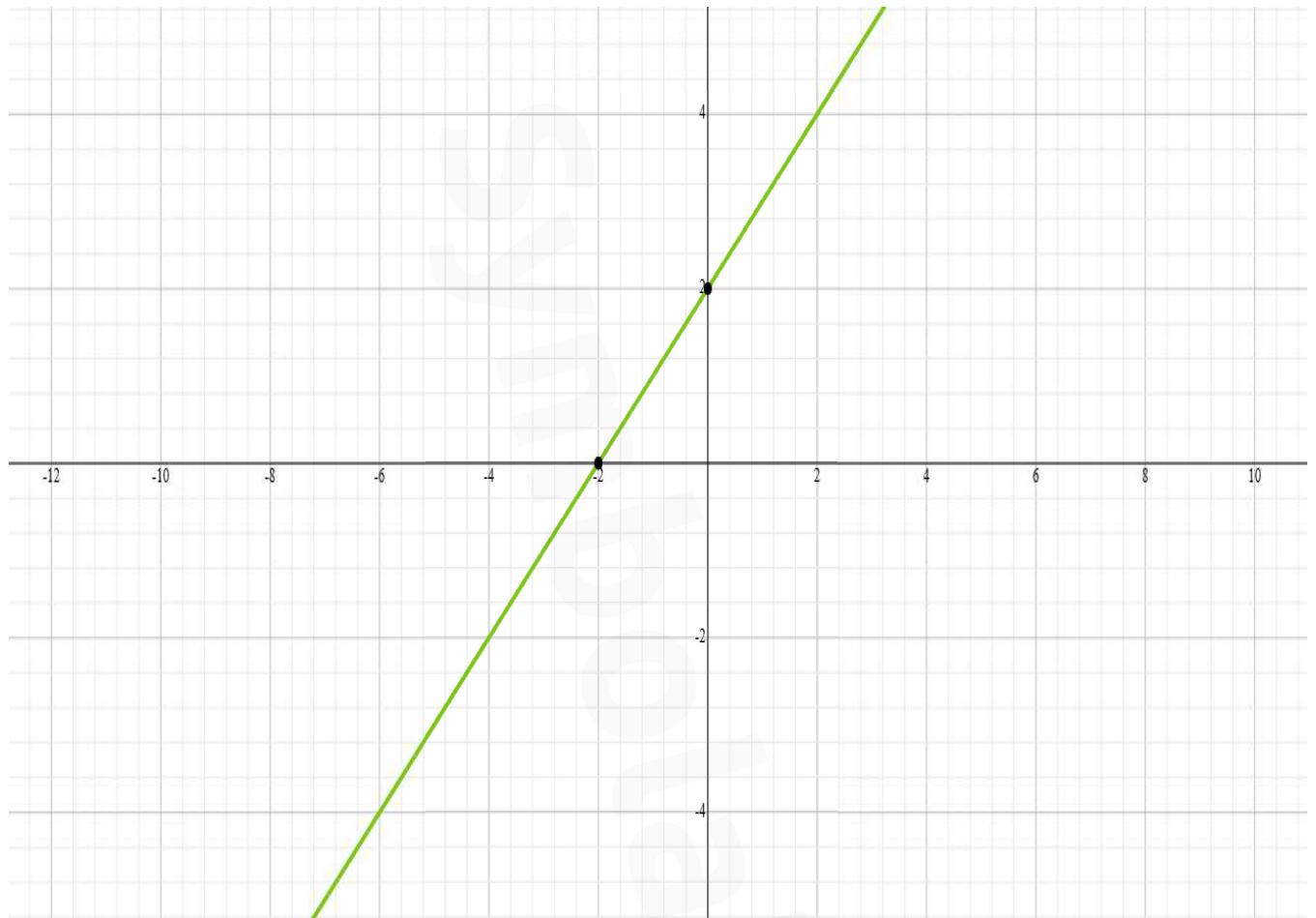
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● $n + 4$

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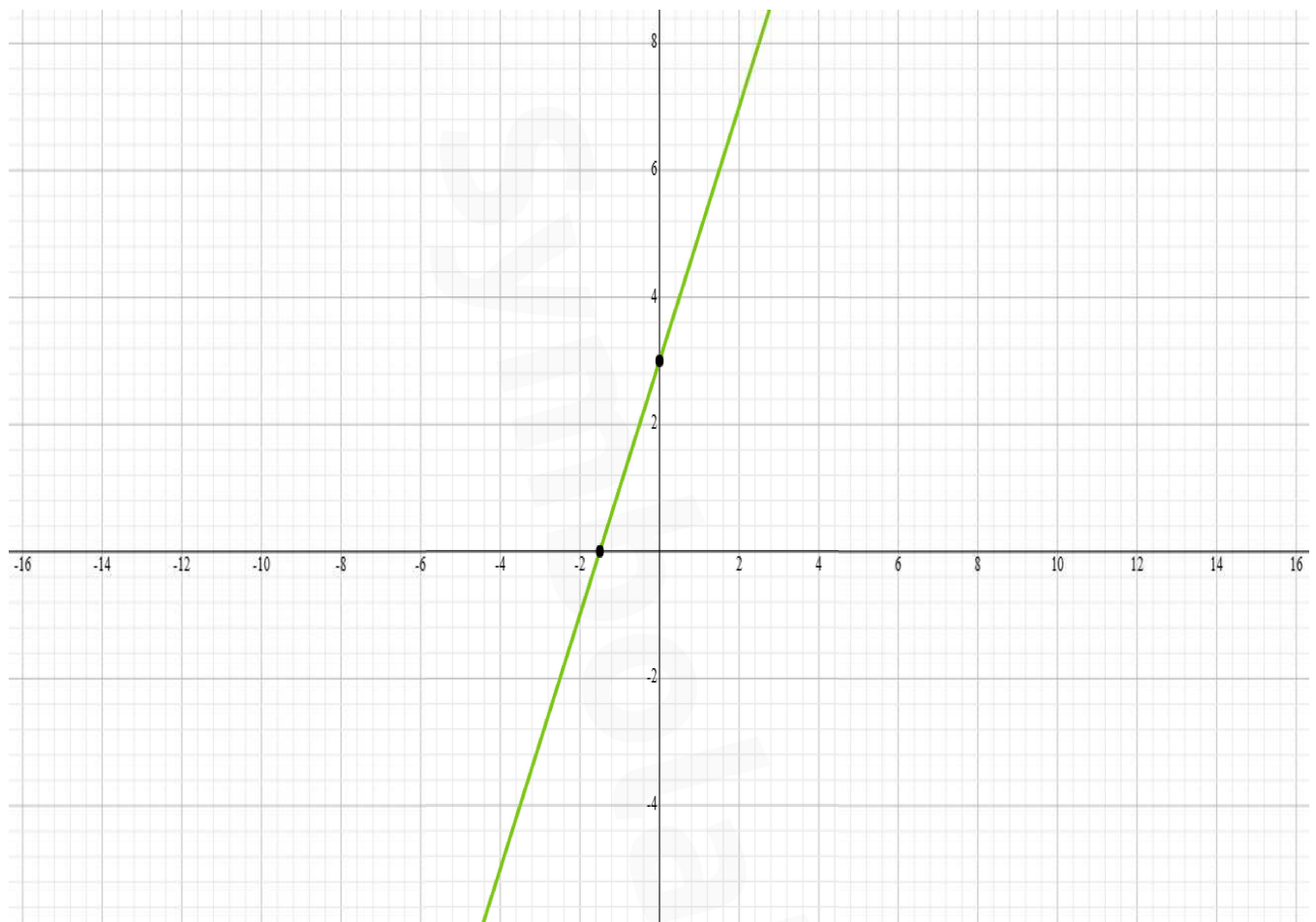
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● $n + 2$

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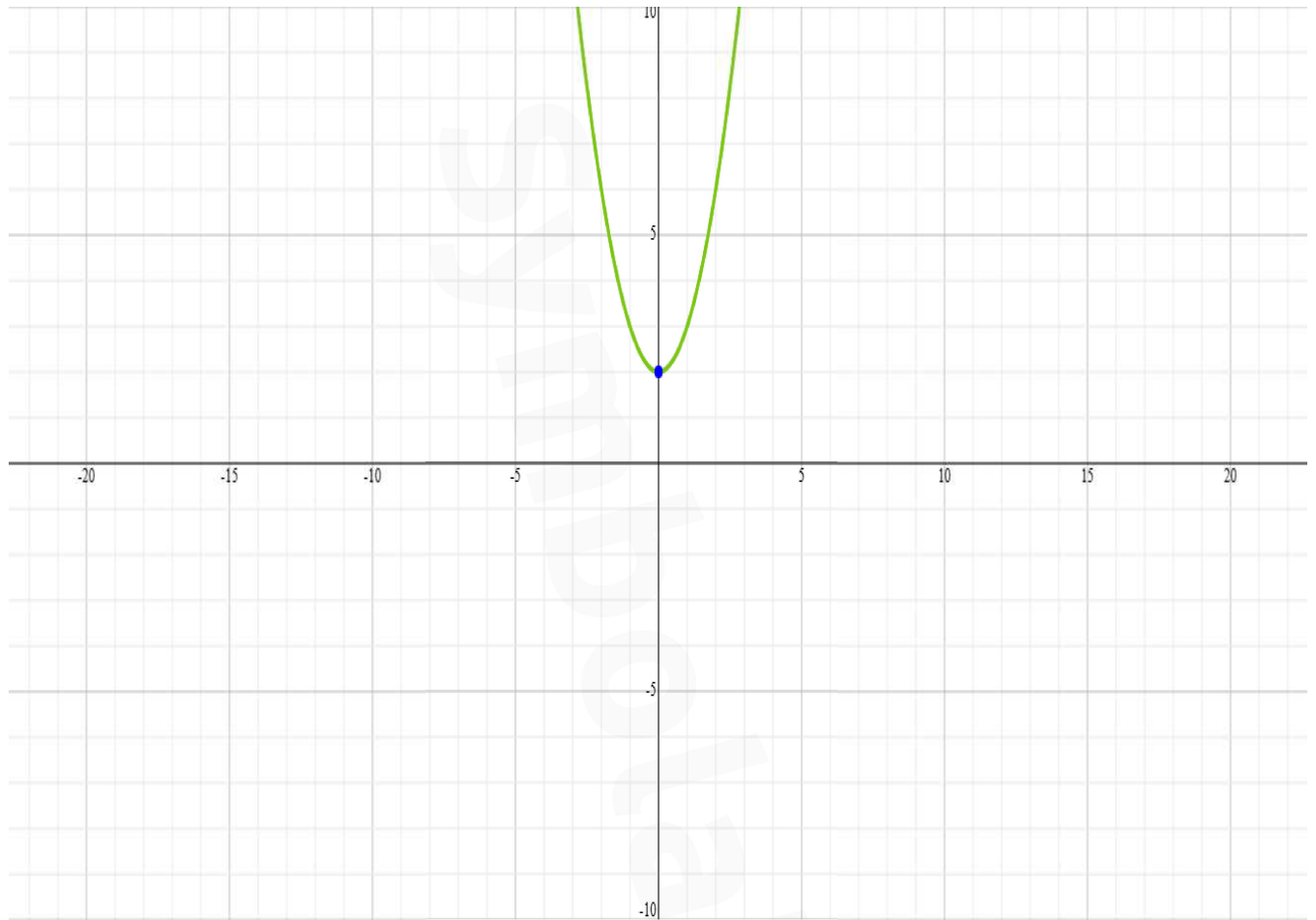
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● $2n + 3$

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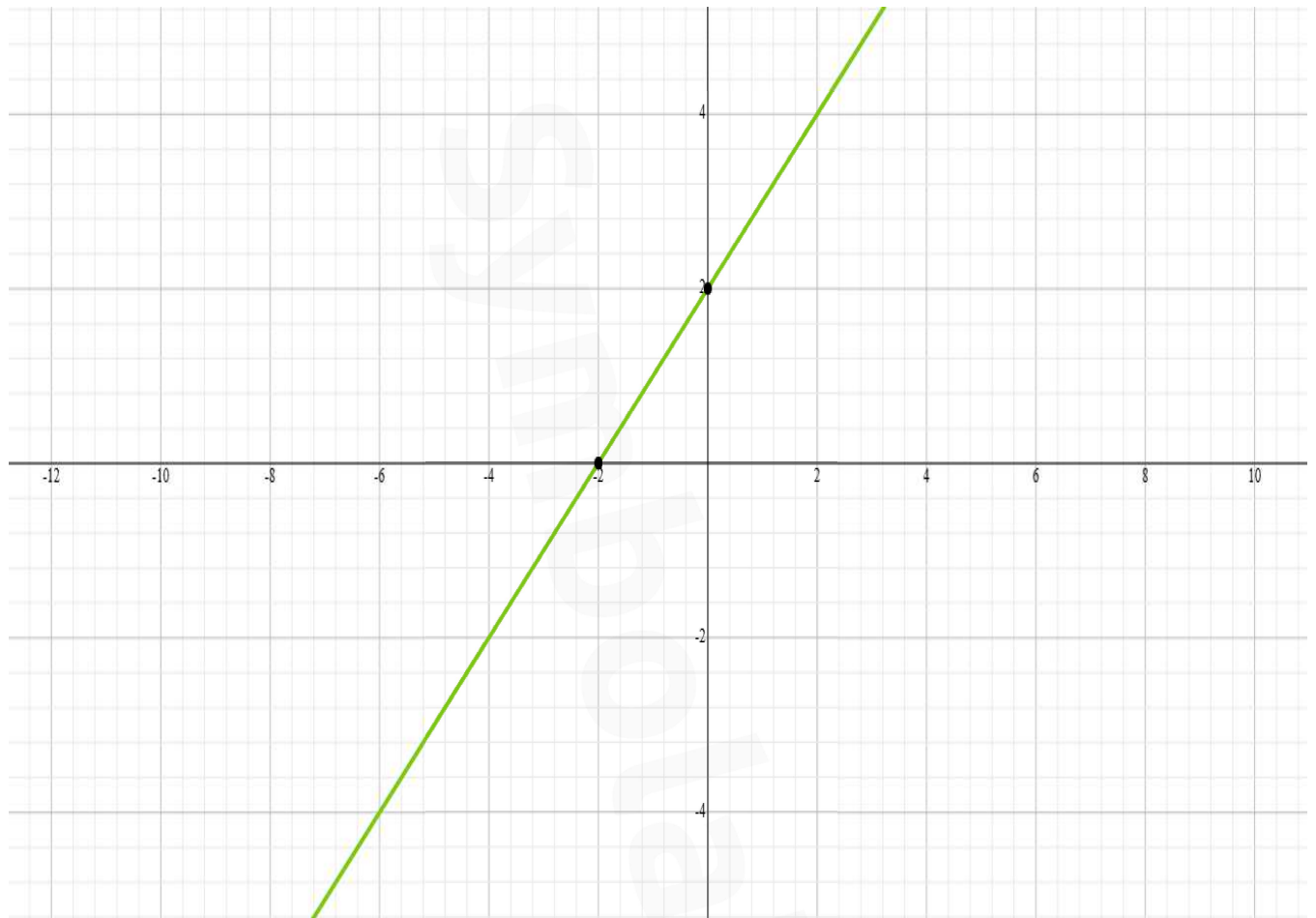
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● $x^2 + 2$

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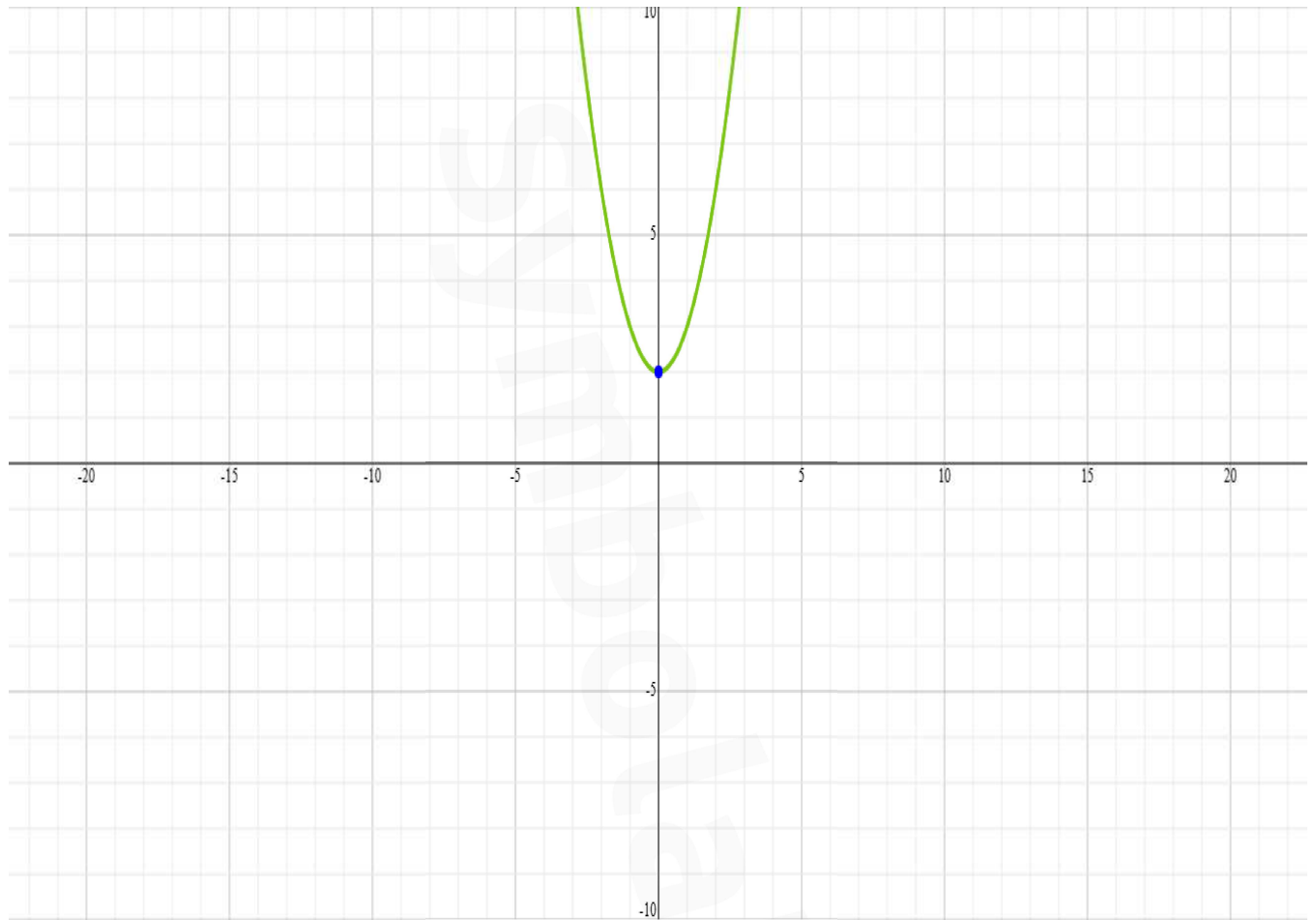
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● $n + 2$

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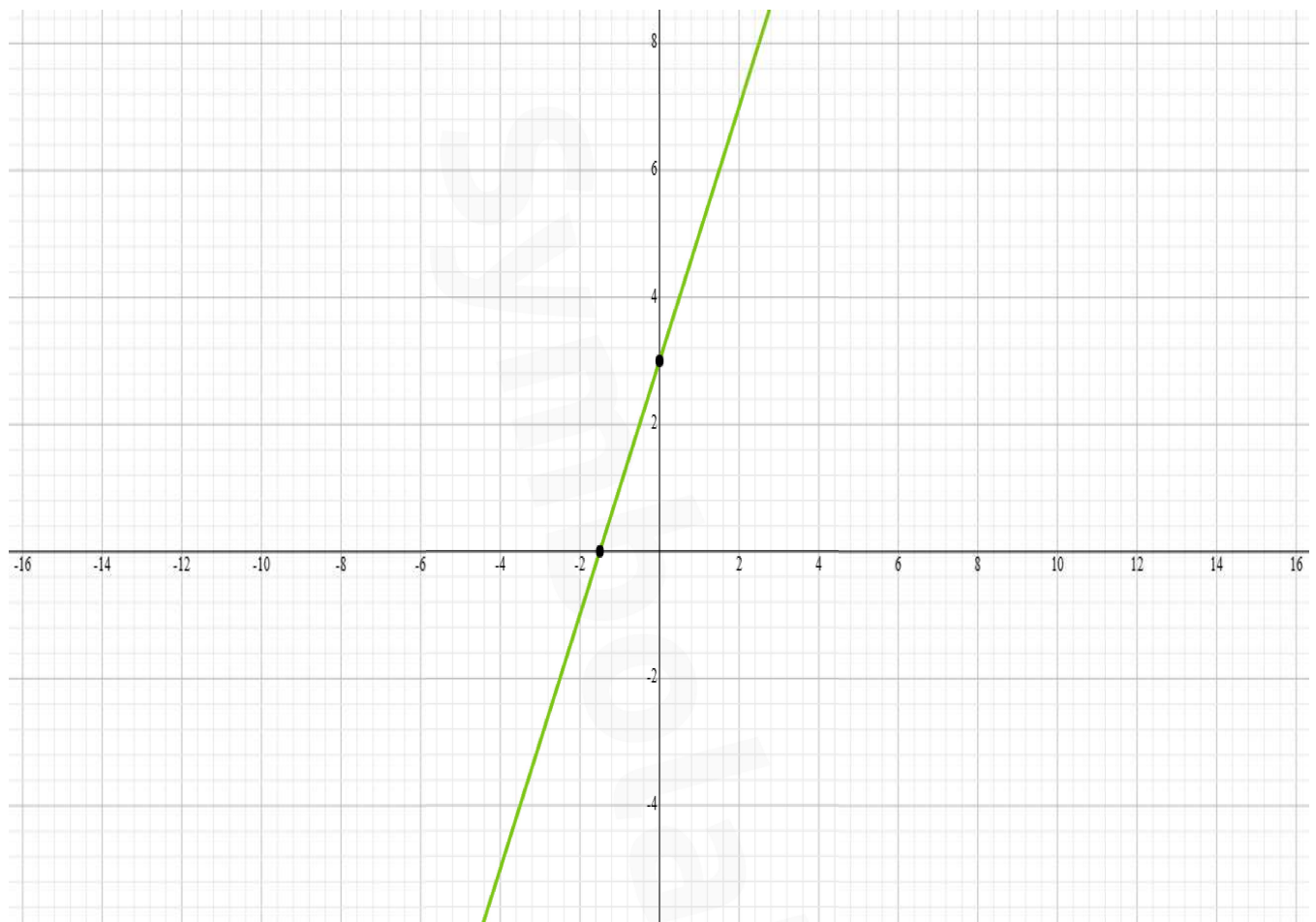
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● $x^2 + 2$

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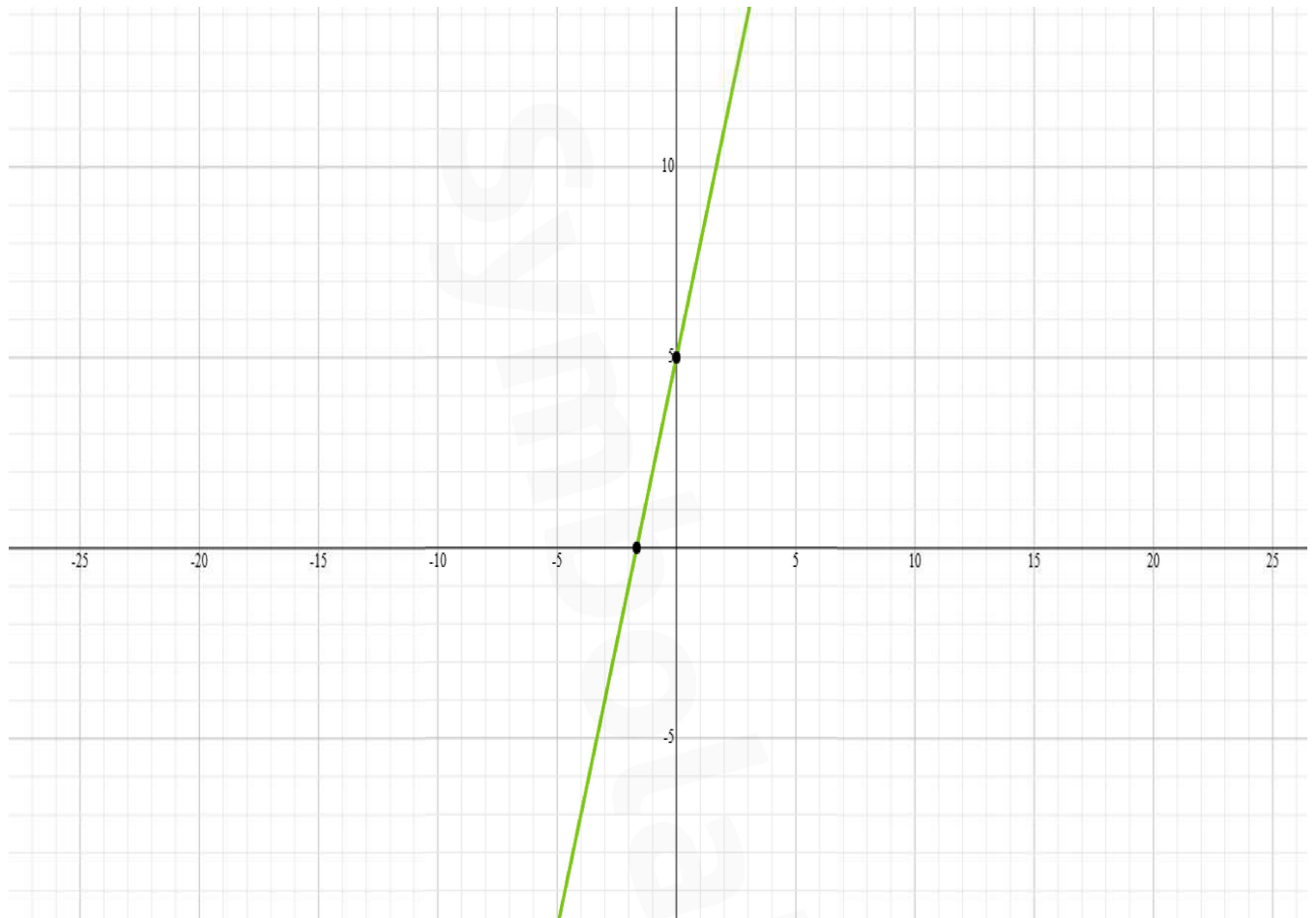
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● $2n + 3$

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● $3n + 5$

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