



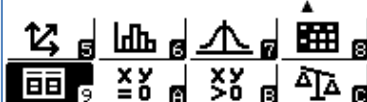
$ax^3+bx^2+cx+d \leq 0$ $-0.5x^3 + 400x - 3500 \leq 0$	$0x^2 + 400x$	$a \leq x \leq b, c \leq x$	$a \leq x \leq b, c \leq x$
-3500		-31.92582404 ≤ x ≤ 11	10, 21.92582404 ≤ x

Notem quin tipus de solució dóna la calculadora:  $a \leq x \leq b, c \leq x$ .

Aleshores,  $x \in [0, 10] \cup [21.93, 40]$ .

Podem construir les funcions  $f(x) = \frac{-1}{2}x^3 + 400x$ ,  $g(x) = 3500$  :

Amb el menú Taula de la calculadora:

	$f(x) = \frac{-1}{2}x^3 + 400x$	$g(x) = 3500$																																													
<b>9: Taula</b>																																															
<b>Rang taula</b> Inicial: 0 Final: 29 Pas: 1	<table border="1"> <thead> <tr> <th>x</th> <th>f(x)</th> <th>g(x)</th> </tr> </thead> <tbody> <tr><td>1</td><td>0</td><td>3500</td></tr> <tr><td>2</td><td>399.5</td><td>3500</td></tr> <tr><td>3</td><td>796</td><td>3500</td></tr> <tr><td>4</td><td>1186.5</td><td>3500</td></tr> </tbody> </table>	x	f(x)	g(x)	1	0	3500	2	399.5	3500	3	796	3500	4	1186.5	3500	<table border="1"> <thead> <tr> <th>x</th> <th>f(x)</th> <th>g(x)</th> </tr> </thead> <tbody> <tr><td>5</td><td>1568</td><td>3500</td></tr> <tr><td>6</td><td>1937.5</td><td>3500</td></tr> <tr><td>7</td><td>2292</td><td>3500</td></tr> <tr><td>8</td><td>2628.5</td><td>3500</td></tr> </tbody> </table>	x	f(x)	g(x)	5	1568	3500	6	1937.5	3500	7	2292	3500	8	2628.5	3500															
x	f(x)	g(x)																																													
1	0	3500																																													
2	399.5	3500																																													
3	796	3500																																													
4	1186.5	3500																																													
x	f(x)	g(x)																																													
5	1568	3500																																													
6	1937.5	3500																																													
7	2292	3500																																													
8	2628.5	3500																																													
<table border="1"> <thead> <tr> <th>x</th> <th>f(x)</th> <th>g(x)</th> </tr> </thead> <tbody> <tr><td>9</td><td>2944</td><td>3500</td></tr> <tr><td>10</td><td>3235.5</td><td>3500</td></tr> <tr><td>11</td><td>3500</td><td>3500</td></tr> <tr><td>12</td><td>3734.5</td><td>3500</td></tr> </tbody> </table>	x	f(x)	g(x)	9	2944	3500	10	3235.5	3500	11	3500	3500	12	3734.5	3500	<table border="1"> <thead> <tr> <th>x</th> <th>f(x)</th> <th>g(x)</th> </tr> </thead> <tbody> <tr><td>13</td><td>3936</td><td>3500</td></tr> <tr><td>14</td><td>4101.5</td><td>3500</td></tr> <tr><td>15</td><td>4228</td><td>3500</td></tr> <tr><td>16</td><td>4312.5</td><td>3500</td></tr> </tbody> </table>	x	f(x)	g(x)	13	3936	3500	14	4101.5	3500	15	4228	3500	16	4312.5	3500	<table border="1"> <thead> <tr> <th>x</th> <th>f(x)</th> <th>g(x)</th> </tr> </thead> <tbody> <tr><td>17</td><td>4352</td><td>3500</td></tr> <tr><td>18</td><td>4343.5</td><td>3500</td></tr> <tr><td>19</td><td>4284</td><td>3500</td></tr> <tr><td>20</td><td>4170.5</td><td>3500</td></tr> </tbody> </table>	x	f(x)	g(x)	17	4352	3500	18	4343.5	3500	19	4284	3500	20	4170.5	3500
x	f(x)	g(x)																																													
9	2944	3500																																													
10	3235.5	3500																																													
11	3500	3500																																													
12	3734.5	3500																																													
x	f(x)	g(x)																																													
13	3936	3500																																													
14	4101.5	3500																																													
15	4228	3500																																													
16	4312.5	3500																																													
x	f(x)	g(x)																																													
17	4352	3500																																													
18	4343.5	3500																																													
19	4284	3500																																													
20	4170.5	3500																																													
<table border="1"> <thead> <tr> <th>x</th> <th>f(x)</th> <th>g(x)</th> </tr> </thead> <tbody> <tr><td>21</td><td>4000</td><td>3500</td></tr> <tr><td>22</td><td>3769.5</td><td>3500</td></tr> <tr><td>23</td><td>3476</td><td>3500</td></tr> <tr><td>24</td><td>3116.5</td><td>3500</td></tr> </tbody> </table>	x	f(x)	g(x)	21	4000	3500	22	3769.5	3500	23	3476	3500	24	3116.5	3500	<table border="1"> <thead> <tr> <th>x</th> <th>f(x)</th> <th>g(x)</th> </tr> </thead> <tbody> <tr><td>25</td><td>2688</td><td>3500</td></tr> <tr><td>26</td><td>2187.5</td><td>3500</td></tr> <tr><td>27</td><td>1612</td><td>3500</td></tr> <tr><td>28</td><td>958.5</td><td>3500</td></tr> </tbody> </table>	x	f(x)	g(x)	25	2688	3500	26	2187.5	3500	27	1612	3500	28	958.5	3500																
x	f(x)	g(x)																																													
21	4000	3500																																													
22	3769.5	3500																																													
23	3476	3500																																													
24	3116.5	3500																																													
x	f(x)	g(x)																																													
25	2688	3500																																													
26	2187.5	3500																																													
27	1612	3500																																													
28	958.5	3500																																													

Per representar les dues funcions utilitzarem el codi QR de la calculadora:



Amb la gràfica podem aproximar el resultat.

