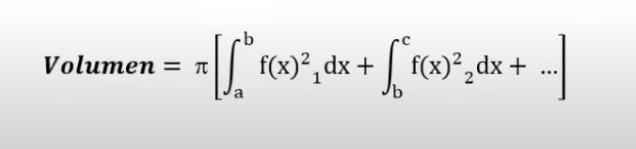
LISTA DE FUNCIONES ENCONTRADAS EN GEOGEBRA

* g(x) = Si(0 ≤ x ≤ 0.57, -3.82 x² + 4.96x)
* h(x) = Si(0.57 ≤ x ≤ 2.18, -0.37 x² + 1.58x + 0.81)
* p(x) = Si(2.18 ≤ x ≤ 3.24, -0.13 x² + 0.6x + 1.82)
* q(x) = Si(3.23 ≤ x ≤ 3.9, -0.25 x² + 1.25x + 0.94)
* r(x) = Si(3.9 ≤ x ≤ 4.28, -0.99 x + 5.89)
* s(x) = Si(4.28 ≤ x ≤ 4.59, -0.86 x² + 10.58x - 27.86)
* t(x) = Si(4.59 ≤ x ≤ 5.71, -3.17 x² + 31.65x - 75.91)
* f\_1(x) = Si(5.69 ≤ x ≤ 6.01, 0.04x + 1.25)
* g\_1(x) = Si(6.01 ≤ x ≤ 7.17, 0.1x + 0.89)
* h\_1(x) = Si(7.17 ≤ x ≤ 8.27, 0.19x + 0.25)
* p\_1(x) = Si(8.27 ≤ x ≤ 8.94, 0.28x - 0.53)
* q\_1(x) = Si(8.94 ≤ x ≤ 9.67, 0.36x - 1.23)
* r\_1(x) = Si(9.67 ≤ x ≤ 9.93, -0.36 x² + 7.6x - 37.58)
* s\_1(x) = Si(9.93 ≤ x ≤ 10.03, 0.23x + 0.18)
* t\_1(x) = Si(10.03 ≤ x ≤ 10.15, -14.31 x² + 290.88x - 1475.51)
* f\_2(x) = Si(10.15 ≤ x ≤ 10.63, -1.97 x² + 40.87x - 209.16)
* g\_2(x) = Si(10.63 ≤ x ≤ 10.74, -15.69 x² + 338.04x - 1817.81)
* h\_2(x) = Si(10.74 ≤ x ≤ 10.94, -3.45 x² + 75.7x - 412.16)
* p\_2(x) = Si(10.94 ≤ x ≤ 11.37, -0.33 x² + 7.92x - 44)
* q\_2(x) = Si(11.37 ≤ x ≤ 11.61, -0.58 x² + 13.96x - 80.34)
* r\_2(x) = Si(11.61 ≤ x ≤ 12, 0.88x² - 19.99x + 117)
* s\_2(x) = Si(12 ≤ x ≤ 12.22, 0.67x² - 15.09x + 88.35)
* t\_2(x) = Si(12.22 ≤ x ≤ 12.37, -0.92 x² + 23.37x - 144.17)
* f\_3(x) = Si(12.37 ≤ x ≤ 12.67, 0.49x - 1.86)
* g\_3(x) = Si(12.67 ≤ x ≤ 12.94, -0.99 x² + 25.56x - 160.59)
* h\_3(x) = Si(12.94 ≤ x ≤ 13.26, -0.37 x² + 9.57x - 57.51)
* p\_3(x) = Si(13.26 ≤ x ≤ 13.68, -0.76 x² + 19.69x - 123.09)
* q\_3(x) = Si(13.68 ≤ x ≤ 13.7, 7.25x - 95.2)
* r\_3(x) = Si(13.7 ≤ x ≤ 13.85, -4.46 x² + 124.77x - 868.16)
* s\_3(x) = Si(13.85 ≤ x ≤ 14.04, -2.24 x² + 63.53x - 445.73)
* t\_3(x) = Si(14.04 ≤ x ≤ 14.37, -0.78 x² + 22.67x - 159.88)
* f\_4(x) = Si(14.37 ≤ x ≤ 14.61, -1.37 x² + 39.59x - 281.21)
* g\_4(x) = Si(14.61 ≤ x ≤ 14.98, -6.12 x² + 178.55x - 1297.57)
* h\_4(x) = Si(14.97 ≤ x ≤ 15.03, 25.99x² - 786.21x + 5949)
* p\_4(x) = Si(15.03 ≤ x ≤ 15.16, -10.75 x + 164.99)
* q\_4(x) = Si(15.16 ≤ x ≤ 15.19, -61 x + 926.56)



|  |  |
| --- | --- |
| **INTEGRAL DE FUNCIÓN** | **RESULTADO** |
| g(x) | 0.6943 |
| h(x) | 7.9323 |
| p(x) | 6.5159 |
| q(x) | 3.2222 |
| r(x) | 1.2923 |
| s(x) | 1.4412 |
| t(x) | 8.2588 |
| f\_1(x) | 0.7047 |
| g\_1(x) | 2.7846 |
| h\_1(x) | 3.2461 |
| p\_1(x) | 2.3685 |
| q\_1(x) | 3.2845 |
| r\_1(x) | 1.4042 |
| s\_1(x) | 0.6128 |
| t\_1(x) | 0.7983 |
| f\_2(x) | 3.6991 |
| g\_2(x) | 0.8734 |
| h\_2(x) | 1.8273 |
| p\_2(x) | 4.6262 |
| q\_2(x) | 2.9169 |
| r\_2(x) | 5.2396 |
| s\_2(x) | 3.2956 |
| t\_2(x) | 2.5079 |
| f\_3(x) | 5.4827 |
| g\_3(x) | 5.1596 |
| h\_3(x) | 6.0779 |
| p\_3(x) | 7.5119 |
| q\_3(x) | 0.3285 |
| r\_3(x) | 2.7112 |
| s\_3(x) | 4.0070 |
| t\_3(x) | 7.4473 |
| f\_4(x) | 5.5231 |
| g\_4(x) | 7.1536 |
| h\_4(x) | 0.7817 |
| p\_4(x) | 0.9821 |
| q\_4(x) | 0.0319 |
| **SUMA TOTAL** | 122.7451 |

Volumen = π[122.7541] = 385.6150 uᶟ

ÁREA

|  |  |
| --- | --- |
| **INTEGRAL DE FUNCIÓN** | **RESULTADO** |
| g(x) | 0.5699 |
| h(x) | 3.5469 |
| p(x) | 2.6278 |
| q(x) | 1.4568 |
| r(x) | 0.6995 |
| s(x) | 0.6634 |
| t(x) | 3.0014 |
| f\_1(x) | 0.4749 |
| g\_1(x) | 1.7968 |
| h\_1(x) | 1.8885 |
| p\_1(x) | 1.2592 |
| q\_1(x) | 1.5475 |
| r\_1(x) | 0.6041 |
| s\_1(x) | 0.2475 |
| t\_1(x) | 0.3094 |
| f\_2(x) | 1.3324 |
| g\_2(x) | 0.3098 |
| h\_2(x) | 0.6044 |
| p\_2(x) | 1.4101 |
| q\_2(x) | 0.8366 |
| r\_2(x) | 1.4291 |
| s\_2(x) | 0.8513 |
| t\_2(x) | 0.6133 |
| f\_3(x) | 1.2824 |
| g\_3(x) | 1.1803 |
| h\_3(x) | 1.3946 |
| p\_3(x) | 1.775 |
| q\_3(x) | 0.0810 |
| r\_3(x) | 0.6376 |
| s\_3(x) | 0.8725 |
| t\_3(x) | 1.5676 |
| f\_4(x) | 1.1513 |
| g\_4(x) | 1.6236 |
| h\_4(x) | 0.2165 |
| p\_4(x) | 0.3534 |
| q\_4(x) | 0.0265 |
| **Área Total** | 40.2439 |

Área bajo la curva = 40.2439 u2