

# Untitled Construction (5 February 2025)

No.	Name	Description	Value
1	ListListaPu...		ListaPuntos = {}
2	Buttonbutton1		button1
3	Buttonbutton2		button2
4	Buttonbutton3		button3
5	Numbern	Length(ListaPuntos)	n = 0
6	Numbernn	If(n $\neq$ 0, 1, n)	nn = 1
7	Numberm	If(Mod(nn, 2) $\neq$ 1, (nn - 1) / 2, nn / 2)	m = 0
8	Listft	Sequence(Sum(Element(ListaPuntos, l) $e^{(-2 \pi i k (l - 1) / n)}$ , l, 1, n) / n, k, -m, If(Mod(nn, 2) $\neq$ 1, m, m - 1))	ft = {(?, ?)}
9	Numbert		t = 0.21
10	NumberRe	real(Sum(Element(ft, l) $e^{(l (l - m - 1) t)}$ , l, 1, If(Mod(nn, 2) $\neq$ 1, 2m + 1, 2m)))	Re = ?
11	NumberIm	imaginary(Sum(Element(ft, l) $e^{(l (l - m - 1) t)}$ , l, 1, If(Mod(nn, 2) $\neq$ 1, 2m + 1, 2m)))	Im = ?
12	Numberft <sub>inv</sub>		ft <sub>inv</sub> = 1
13	Listl2	Sequence(Element(ft, l) $e^{(l (l - m - 1) t)}$ , l, 1, n)	l2 = {}
14	Listmag <sub>l2</sub>	Sequence(Length(Element(l2, i)), i, 1, Length(l2))	mag <sub>l2</sub> = {}
15	Listl <sub>orde</sub>	Sort(l2, -mag <sub>l2</sub> )	l <sub>orde</sub> = ?
16	Listsum <sub>orde</sub>	Sequence(Sum(Element(l <sub>orde</sub> , l), l, 1, k), k, 1, n)	sum <sub>orde</sub> = {}
17	Empty Set c	Circle with center (0, 0) and radius Length(Element(sum <sub>orde</sub> , 1))	c: x <sup>2</sup> + y <sup>2</sup> = ?
18	Listcircun <sub>ini</sub>	{c}	circun <sub>ini</sub> = {x <sup>2</sup> + y <sup>2</sup> = ?}
19	Listft <sub>orde</sub>	Sort(ft, -mag <sub>l2</sub> )	ft <sub>orde</sub> = ?
20	Listcircun <sub>orde</sub>	Sequence(Circle(Element(sum <sub>orde</sub> , l - 1), Length(Element(ft <sub>orde</sub> , l))), l, 2, If(Mod(nn, 2) $\neq$ 1, 2m + 1, 2m))	circun <sub>orde</sub> = {}
21	Numbermini	Min(3mag <sub>l2</sub> )	mini = ?
22	NumberVel		Vel = 1
23	BooleanVal...		a = false
24	Texttexto1		"\text{Drawingwithepicycles}"
25	Buttonbutton4		button4
26	Buttonbutton5		button5
27	ListListaPuntos <sub>s</sub>		ListaPuntos <sub>s</sub> = {}
28	Numbern <sub>1</sub>	Length(ListaPuntos <sub>s</sub> )	n <sub>1</sub> = 0
29	Buttonbutton6		button6
30	NumberCo...		ContadorPuntos=0
31	Numberscore		score = 0
32	Numberpre...	round(Radius(Element(circun <sub>s</sub> , 1)), 2)	pregunta = ?
33	Texttexto2		"\text{The radius of the largest \diameter circle (rounded to \2 places) is:}"
34	Numberres...		respuesta = 0
35	InputBoxEn...	InputBox(respuesta)	Entry
36	Numbergra...	If(respuesta - pregunta $\neq$ 0, 100, 0)	grade = 0
37	Buttonbutton7		button7
38	Numbercou...		counter = -10
39	Texttexto3	"" + (FormulaText(pregunta)) + ""	"?"
40	PointPuntito	(Re, Im)	Puntito = (?, ?)

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No.	Name	Description	Value
41	List11	Sequence(Vector(Element(sum <sub>acum orde</sub> , i - 1), Element(sum <sub>acum orde</sub> , i)), i, 2, Length(sum <sub>acum orde</sub> ))	$I1 = \{ \}$
42	List circun <sub>totales</sub>	Union(circun <sub>mi</sub> , circun <sub>orde</sub> )	$\text{circun}_{\text{totales}} = \{x^2 + y^2 = ?\}$
43	Vector u	Vector((0,0), Element(sum <sub>acum orde</sub> , 1))	$u = (? , ?)$
44	Texttextto2 <sub>2</sub>	"N=" + (FormulaText(ContadorPuntos)) + "\text{ points}"	"N= 0 \text{ points}"
45	Texttextto2 <sub>1</sub>	" " + (FormulaText(n)) + "\text{ circumferences}"	"0 \text{ circumferences}"
46	Texttextto2 <sub>3</sub>	"\text{Your answer was} " + (FormulaText(Entry)) + ". \\\nScore: " + (FormulaText(score)) + ")"	"\text{Your answer was 0. \\\nScore: 0}"