

# Spiral

By YourNameHere

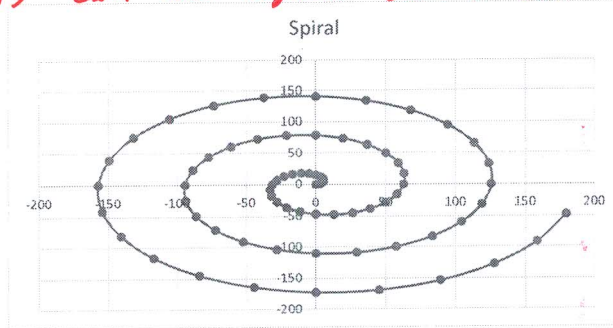
a = 10

← user input for (a)

$x(t) = at \cos(t)$     $y(t) = at \sin(t)$    <- note: t needs to be in radians

t (in deg)	x	y
0	0	0
15	2.5287879	0.677586676
30	4.534498411	2.617993878
45	5.553603673	5.553603673
60	5.235987756	9.068996821
75	3.387933378	12.6439395
90	9.62229E-16	15.70796327
105	-4.743106729	17.7015153
120	-10.47197551	18.13799364
135	-16.66081102	16.66081102
150	-22.67249205	13.08996939
165	-27.8166669	7.453453431
180	-31.41592654	3.84892E-15
195	-32.8742427	-8.808626783
210	-31.74148887	-18.32595715
225	-27.76801836	-27.76801836
240	-20.94395102	-36.27598728
255	-11.51897348	-42.9893943
270	-8.66006E-15	-47.1238898
285	12.87414684	-48.0469701
300	26.17993878	-45.34498411
315	38.87522571	-38.87522571
330	49.87948252	-28.79793266
345	58.1621217	-15.58449354
360	62.83185307	-1.53957E-14
375	63.2196975	16.93966689
390	58.94847934	34.03392041
405	49.98243305	49.98243305
420	36.65191429	63.48297775
435	19.65001359	73.33484909
450	2.40557E-14	78.53981634
465	-21.00518694	78.39242489
480	-41.88790205	72.55197457
495	-61.0896404	61.0896404
510	-77.08647298	44.50589593
525	-88.50757649	23.71553365
540	-94.24777961	3.46403E-14
555	-93.56515229	-25.070707
570	-86.1554698	-49.74188368
585	-72.19684775	-72.19684775
600	-52.35987756	-90.68996821
615	-27.7810537	-103.6803039
630	-4.71492E-14	-109.9557429
645	29.13622705	-108.7378797
660	57.59586532	-99.75896503
675	83.30405509	-83.30405509
690	104.2934634	-60.21385919
705	118.8530313	-31.84657375
720	125.6637061	-6.15827E-14
735	123.9106071	33.2017471
750	113.3624603	65.44984695
765	94.41126244	94.41126244
780	68.06784083	117.8969587
795	35.91209381	134.0257587
810	7.79406E-14	141.3716694
825	-37.26726716	139.0833345
840	-73.30382858	126.9659555
855	-105.5184698	105.5184698
870	-131.5004539	75.92182246
885	-149.1984861	39.97761386
900	-157.0796327	9.62229E-14
915	-154.2560619	-41.33278721
930	-140.5694507	-81.15781022
945	-116.6256771	-116.6256771
960	-83.7758041	-145.1039491
975	-44.04313391	-164.3712135
990	1.90503E-13	-172.7875959
1005	45.39830726	-169.4287893
1020	89.01179185	-154.172946
1035	127.7328845	-127.7328845
1050	158.7074444	-91.62978573
1065	179.5439409	-48.10865397

← make formulæ so that these two cells can be copied down without modification



↑ Scatter (xy) with smooth lines and markers

set up print one page portrait

use fill 0-1065 in steps of 15

↑ formulæ using col A for degrees (t) cell B3 for a. note (t) must be in radians in both places in formulæ

Multiplication Table  
By YourNameHere

	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

Instructions:

Create a standard multiplication table (1-12 in row above and 1-12 in column to left)

In cell B5 create a formula that can be copied to cells b5:m16 WITHOUT MODIFICATION to create the table shown above.

*Follow instructions!*

*Set up print  
one page  
Landscape*

Distance  
by YourNameHere

miles = 30 ← user input  
yards = 52800 ← calc  
feet = 158400 ← calc  
inches = 1900800 ← calc  
cm = 4828032 ← calc

Given:  
mile = 1760 yards = 5280 feet  
yard = 3 feet = 36 inches  
foot = 12 inches  
inch = 2.54 centimeters

don't need on  
your spreadsheet

Setup print portrait  
~~then~~ center horizontally