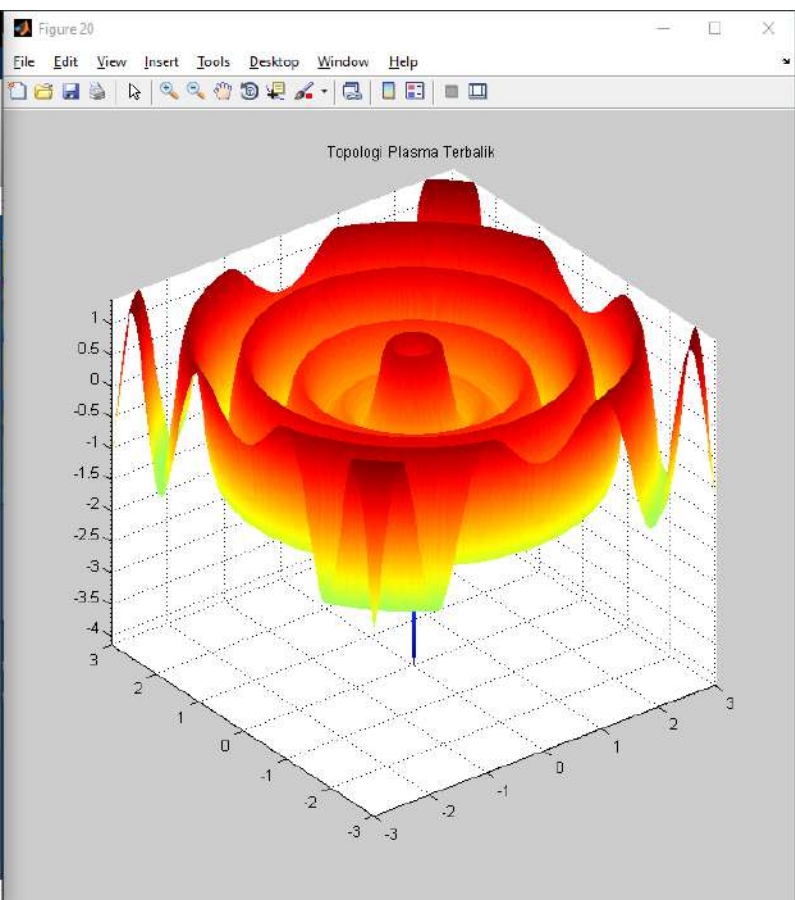


```
MATLAB R2013a

D:\Komputasi Matematika \Tugas\tugas_4_662023003.m
tugas_4_662023003.m  cobaaa.m

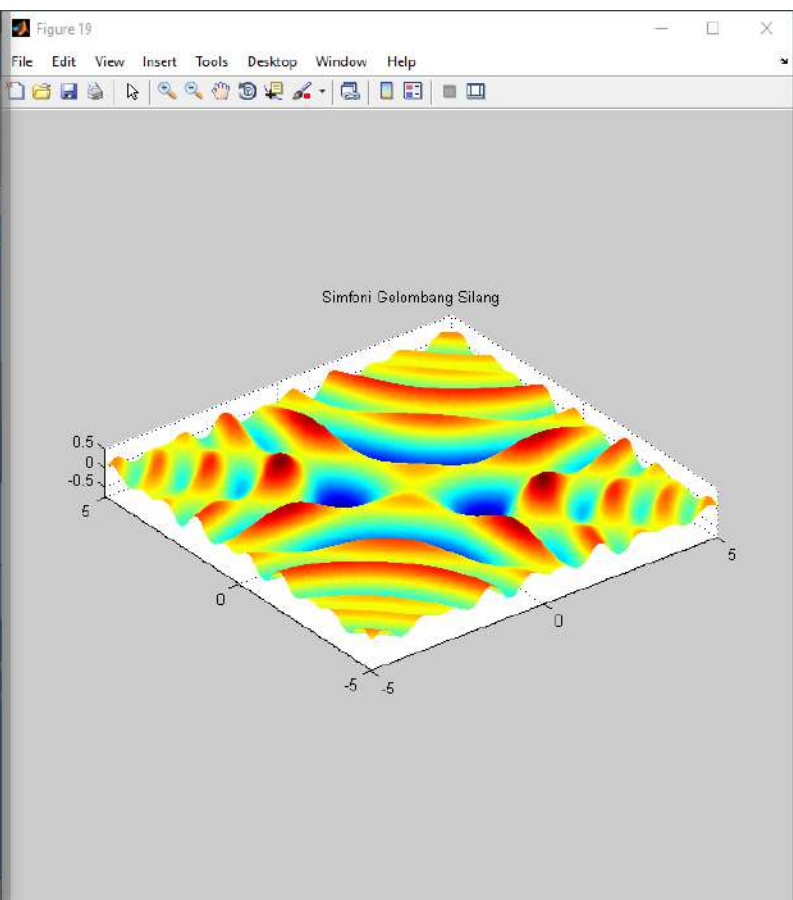
213 - figure(18)
214 - surf(x, y, z)
215 - shading interp
216 - colormap(copper)
217 - axis equal tight
218 - title('Plana')
219
220 % Simfoni Gelombang Silang
221 [x, y] = meshgrid(linspace(-5,5,300));
222 z = sin(x.*y) .* cos(x + y) ./ (1 + 0.1*(x.^2 + y.^2));
223
224 figure(19)
225 surf(x, y, z)
226 shading interp
227 axis equal tight
228 title('Simfoni Gelombang Silang')
229
230 % Topologi Plasma Terbalik
231 [x, y] = meshgrid(linspace(-3,3,300));
232 r = sqrt(x.^2 + y.^2);
233 z = log(r + 1e-3) .* cos(8*r);
234
235 figure(20)
236 surf(x, y, z)
237 shading interp
238 axis equal tight
239 title('Topologi Plasma Terbalik')
240
```



```
MATLAB R2013a

D:\Komputasi Matematika > Tugas
Editor - D:\Komputasi Matematika\Tugas\tugas_4_662023003.m
tugas_4_662023003.m  cobaaa.m

213 - figure(18)
214 - surf(x, y, z)
215 - shading interp
216 - colormap(copper)
217 - axis equal tight
218 - title('Plana')
219
220 % Simfoni Gelombang Silang
221 [x, y] = meshgrid(linspace(-5,5,300));
222 z = sin(x.*y) .* cos(x + y) ./ (1 + 0.1*(x.^2 + y.^2));
223
224 figure(19)
225 surf(x, y, z)
226 shading interp
227 axis equal tight
228 title('Simfoni Gelombang Silang')
229
230 % Topologi Plasma Terbalik
231 [x, y] = meshgrid(linspace(-3,3,300));
232 r = sqrt(x.^2 + y.^2);
233 z = log(r + 1e-3) .* cos(8*r);
234
235 figure(20)
236 surf(x, y, z)
237 shading interp
238 axis equal tight
239 title('Topologi Plasma Terbalik')
240
```



```
MATLAB R2013a

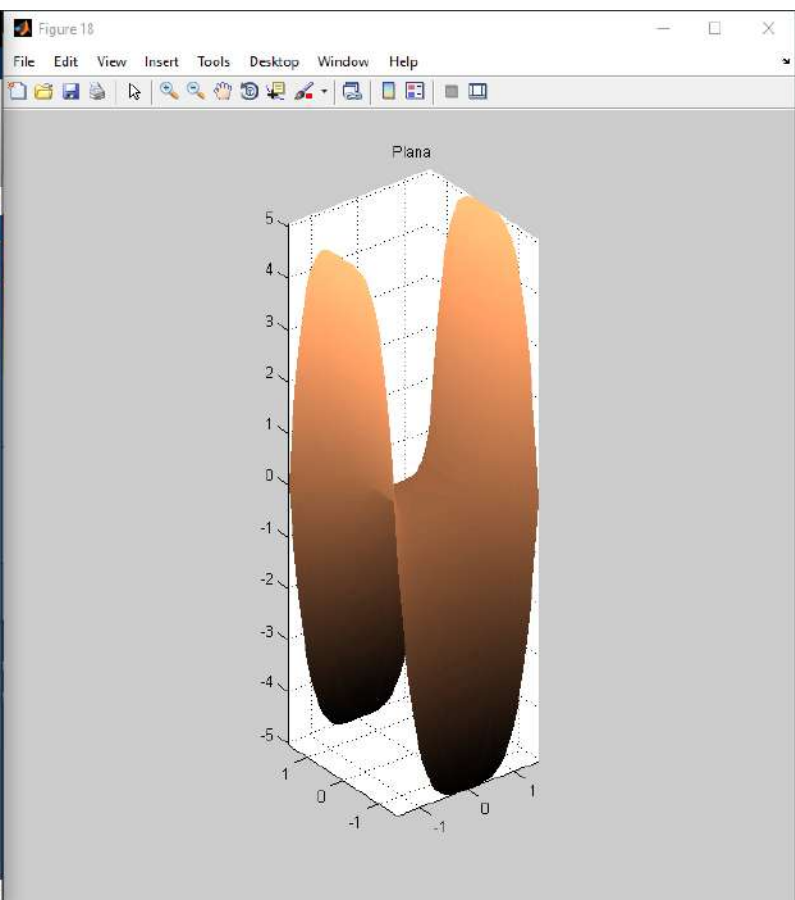
H... P... A... E... P... V... Search Documentation

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FILE BREAKPOINTS RUN

D: \Komputasi Matematika \Tugas\tugas_4_662023003.m
Editor - D:\Komputasi Matematika\Tugas\tugas_4_662023003.m
tugas_4_662023003.m cobaaaa.m

199 x = sin(u) .* cos(v);
200 y = sin(v) .* cos(u);
201 z = sin(5*(x.^2 + y.^2)) ./ sqrt(x.^2 + y.^2 + 0.01);
202
203 figure(17)
204 surf(x, y, z)
205 shading interp
206 axis equal
207 title('Pusaran Abstrak')
208
209 % Plano
210 [x, y] = meshgrid(linspace(-1.5, 1.5, 250));
211 z = x.^4 - y.^4;
212
213 figure(18)
214 surf(x, y, z)
215 shading interp
216 colormap(copper)
217 axis equal tight
218 title('Plano')
219
220 % Simfoni Gelombang Silang
221 [x, y] = meshgrid(linspace(-5, 5, 300));
222 z = sin(x.*y) .* cos(x + y) ./ (1 + 0.1*(x.^2 + y.^2));
223
224 figure(19)
225 surf(x, y, z)
226 shading interp
227 axis equal tight
```



```
MATLAB R2013a

H... P... A... E... P... V... Search Documentation

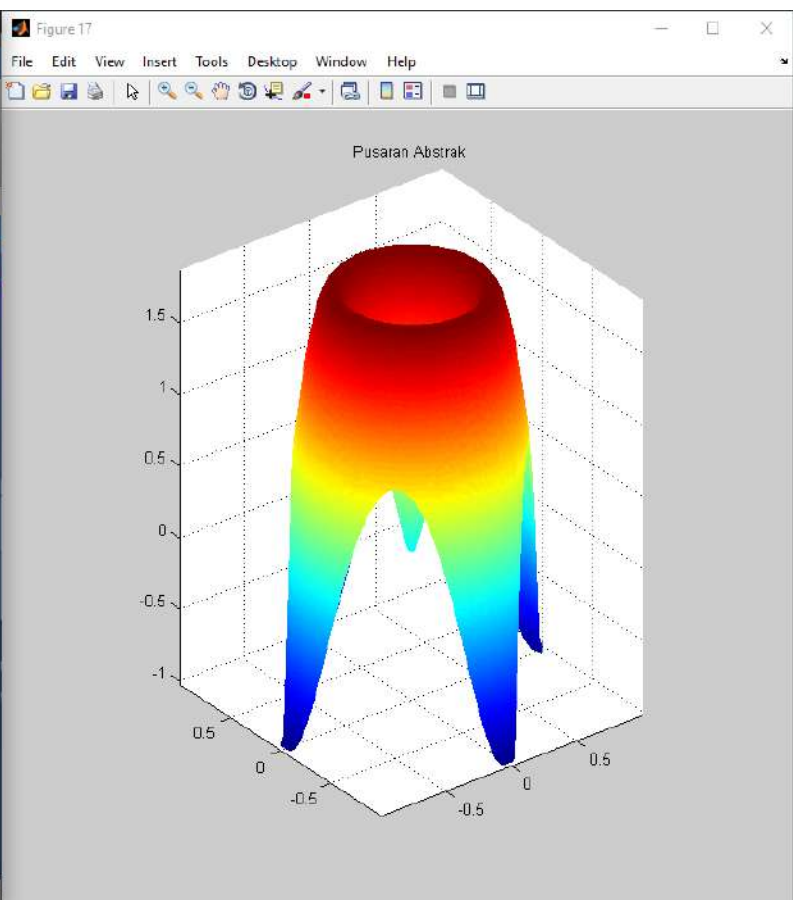
New Open Save Compare EDIT NAVIGATE Breakpoints Run Run and Time Run and Advance Run Section Advance

FILE BREAKPOINTS RUN

D: \Komputasi Matematika \Tugas\tugas_4_662023003.m

tugas_4_662023003.m cobaaa.m

186
187 [x, y] = meshgrid(linspace(-2,2,400));
188 z = sin(10*(x.^2 - y.^2)) ./ (1 + x.^2 + y.^2);
189
190 figure(16)
191 surf(x, y, z)
192 shading interp
193 colormap(cool)
194 axis equal tight
195 title('Folia Fraktal')
196
197 % Pusaran Abstrak
198 [u, v] = meshgrid(linspace(-pi, pi, 300), linspace(-pi, pi, 300));
199 x = sin(u) .* cos(v);
200 y = sin(v) .* cos(u);
201 z = sin(5*(x.^2 + y.^2)) ./ sqrt(x.^2 + y.^2 + 0.01);
202
203 figure(17)
204 surf(x, y, z)
205 shading interp
206 axis equal
207 title('Pusaran Abstrak')
208
209 % Plana
210 [x, y] = meshgrid(linspace(-1.5, 1.5, 250));
211 z = x.^4 - y.^4;
212
213 figure(18)
```



MATLAB R2013a

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FILE BREAKPOINTS RUN

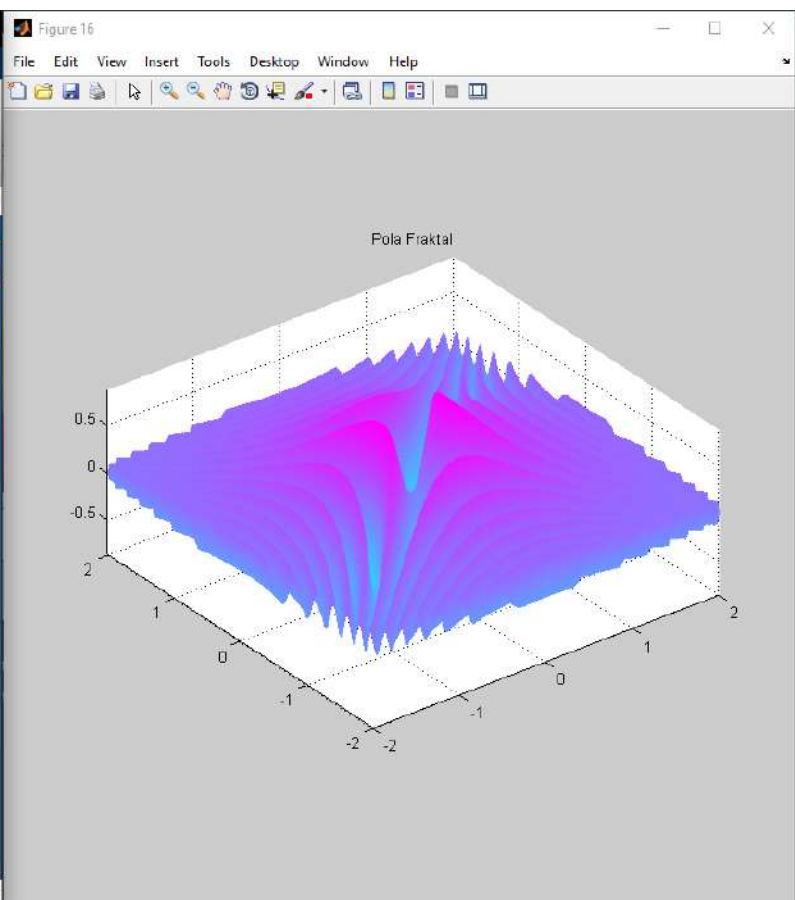
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Editor - D:\Komputasi Matematika\Tugas\tugas_4_662023003.m

tugas_4_662023003.m cobaaa.m

```
175 y = r .* sin(phi) .* sin(theta);
176 z = r .* cos(phi);
177
178 figure(15)
179 surf(x, y, z)
180 shading interp
181 colormap(hot)
182 axis equal
183 title('Bunga 3D Berdenyut')
184
185 % Pola Frakta
186
187 [x, y] = meshgrid(linspace(-2,2,400));
188 z = sin(10*(x.^2 - y.^2)) ./ (1 + x.^2 + y.^2);
189
190 figure(16)
191 surf(x, y, z)
192 shading interp
193 colormap(cool)
194 axis equal tight
195 title('Pola Fraktal')
196
197 % Pusaran Abstrak
198 [u, v] = meshgrid(linspace(-pi, pi, 300), linspace(-pi, pi, 300));
199 x = sin(u) .* cos(v);
200 y = sin(v) .* cos(u);
201 z = sin(5*(x.^2 + y.^2)) ./ sqrt(x.^2 + y.^2 + 0.01);
202
```

script Ln 185 Col 1




```
MATLAB R2013a

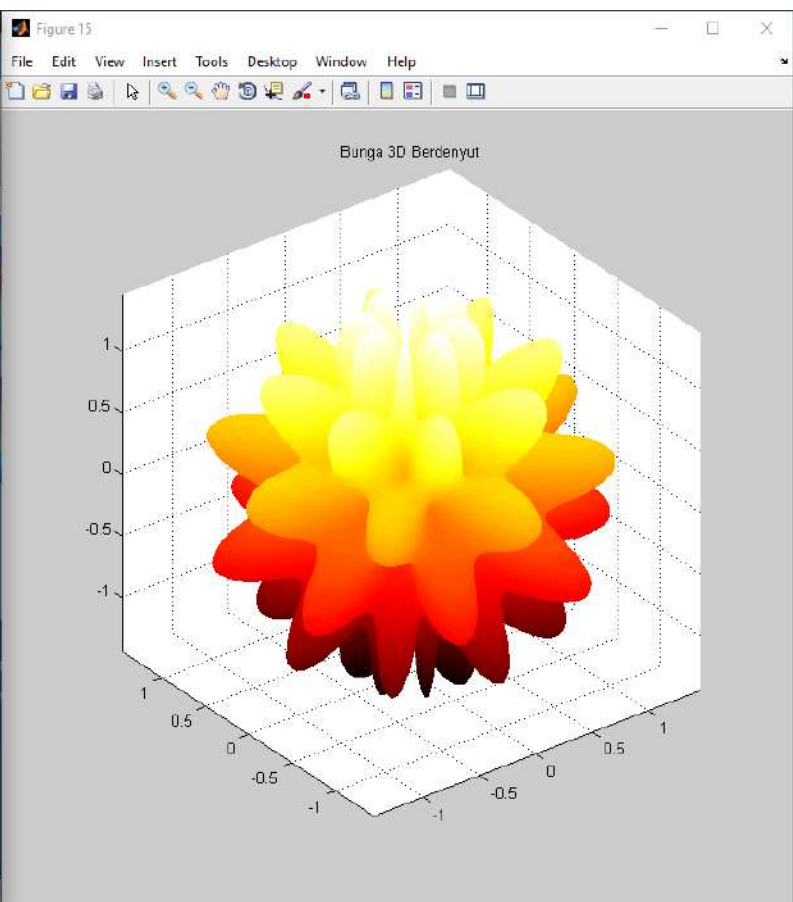
H... P... A... E... P... V... Search Documentation

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tugas_4_662023003.m x cobaaa.m x

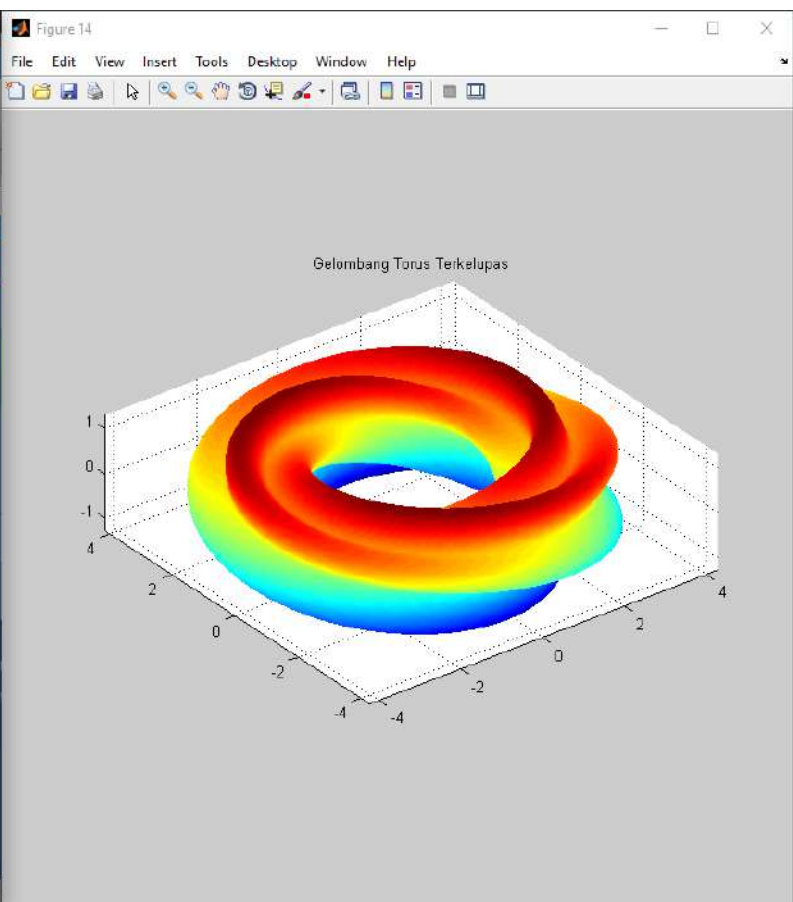
165 - figure(14)
166 - surf(x, y, z)
167 - shading interp
168 - axis equal off
169 - title('Gelombang Torus Terkelupas')
170
171 % Bunga 3D Berdenyut
172 [phi, theta] = meshgrid(linspace(0, pi, 150), linspace(0, 2*pi, 150));
173 r = 1 + 0.5*sin(6*phi).*cos(5*theta);
174 x = r .* sin(phi) .* cos(theta);
175 y = r .* sin(phi) .* sin(theta);
176 z = r .* cos(phi);
177
178 figure(15)
179 surf(x, y, z)
180 shading interp
181 colormap(hot)
182 axis equal
183 title('Bunga 3D Berdenyut')
184
185 % Pola Frakta
186
187 [x, y] = meshgrid(linspace(-2,2,400));
188 z = sin(10*(x.^2 - y.^2)) ./ (1 + x.^2 + y.^2);
189
190 figure(16)
191 surf(x, y, z)
192 shading interp
```



MATLAB R2013a

```
148 - y = x .* sin(theta);
149 - z = sin(4*theta) ./ r;
150
151 - figure(13)
152 - surf(x, y, z)
153 - shading interp
154 - title('Spiral Gelombang Puncaran')
155 - axis equal tight
156
157 - % Gelombang Torus Terkelupas
158
159 - [u, v] = meshgrid(linspace(0, 2*pi, 200), linspace(0, 2*pi, 200));
160 - R = 3; r = 1 + 0.3*sin(5*v + 3*u);
161 - x = (R + r.*cos(v)) .* cos(u);
162 - y = (R + r.*cos(v)) .* sin(u);
163 - z = r .* sin(v);
164
165 - figure(14)
166 - surf(x, y, z)
167 - shading interp
168 - axis equal
169 - title('Gelombang Torus Terkelupas')
170
171 - % Bunga 3D Berdenyut
172 - [phi, theta] = meshgrid(linspace(0, pi, 150), linspace(0, 2*pi, 150));
173 - r = 1 + 0.5*sin(6*phi) .* cos(8*theta);
174 - x = r .* sin(phi) .* cos(theta);
175 - y = r .* sin(phi) .* sin(theta);
176 - z = r .* cos(phi);
```

script Ln 157 Col 1



```
MATLAB R2013a

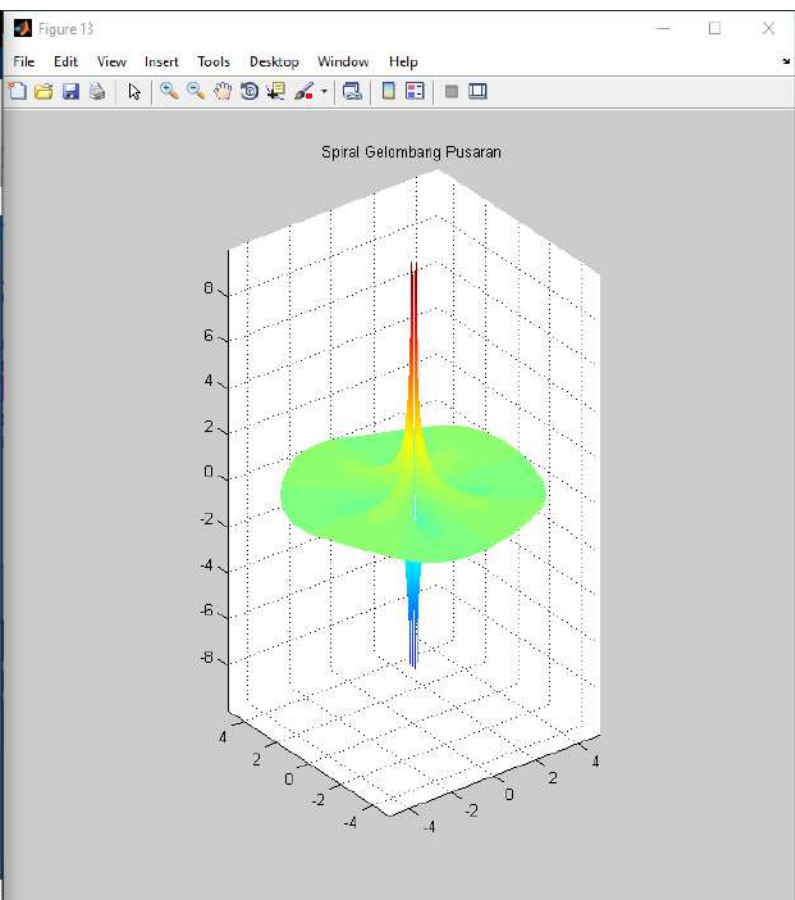
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tugas_4_662023003.m cobaaa.m

136 figure(12)
137 plot(x,y,'m','LineWidth',2)
138 axis equal
139 title('Kurva Butterfly (Kupu-kupu)')
140 grid on
141
142 % Spiral Gelombang Pusaran
143 theta = linspace(0, 6*pi, 300);
144 r = linspace(0.1, 5, 300);
145 [theta, r] = meshgrid(theta, r);
146 x = r .* cos(theta);
147 y = r .* sin(theta);
148 z = sin(4*theta) ./ r;
149
150 figure(13)
151 surf(x, y, z)
152 shading interp
153 title('Spiral Gelombang Pusaran')
154 axis equal tight
155
156 % Gelombang Torus Terkelupas
157
158 [u, v] = meshgrid(linspace(0, 2*pi, 200), linspace(0, 2*pi, 200));
159 R = 3; r = 1 + 0.3*sin(5*v + 3*u);
160 x = (R + r.*cos(v)) .* cos(u);
161 y = (R + r.*cos(v)) .* sin(u);
162 z = r .* sin(v);
163
```



MATLAB R2013a

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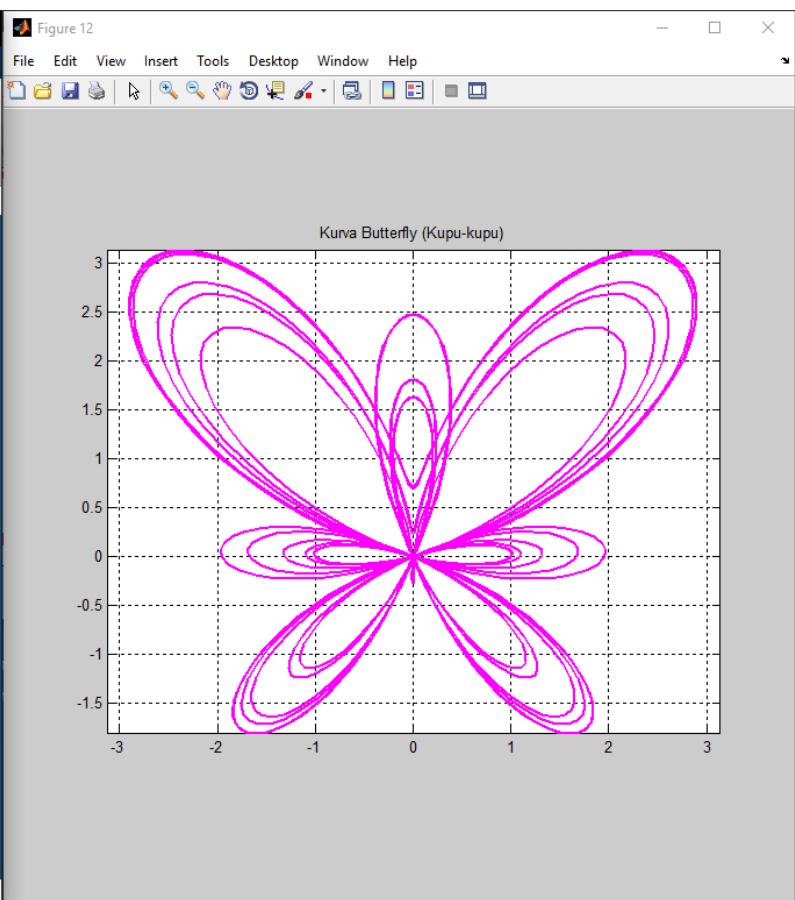
FILE BREAKPOINTS RUN

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tugas_4_662023003.m cobaaaa.m

```
120 % Cincin Tak Beraturan
121 theta = linspace(0,2*pi,500);
122 r = 1 + 0.3*rand(1,500); % radius acak kecil
123
124 x = r .* cos(theta);
125 y = r .* sin(theta);
126
127 figure(11)
128 plot(x,y,'r','LineWidth',2)
129 axis equal
130 title('Cincin Tak Beraturan')
131
132 % Kurva Butterfly
133 t = linspace(0,12*pi,1000);
134 x = sin(t) .* (exp(cos(t)) - 2*cos(4*t) - sin(t/12).^5);
135 y = cos(t) .* (exp(cos(t)) - 2*cos(4*t) - sin(t/12).^5);
136
137 figure(12)
138 plot(x,y,'m','LineWidth',2)
139 axis equal
140 title('Kurva Butterfly (Kupu-kupu)')
141 grid on
142
143 % Spiral Gelombang Pusaran
144 theta = linspace(0, 6*pi, 300);
145 r = linspace(0.1, 5, 300);
146 [theta, r] = meshgrid(theta, r);
147 x = r .* cos(theta);
```

script Ln 127 Col 1



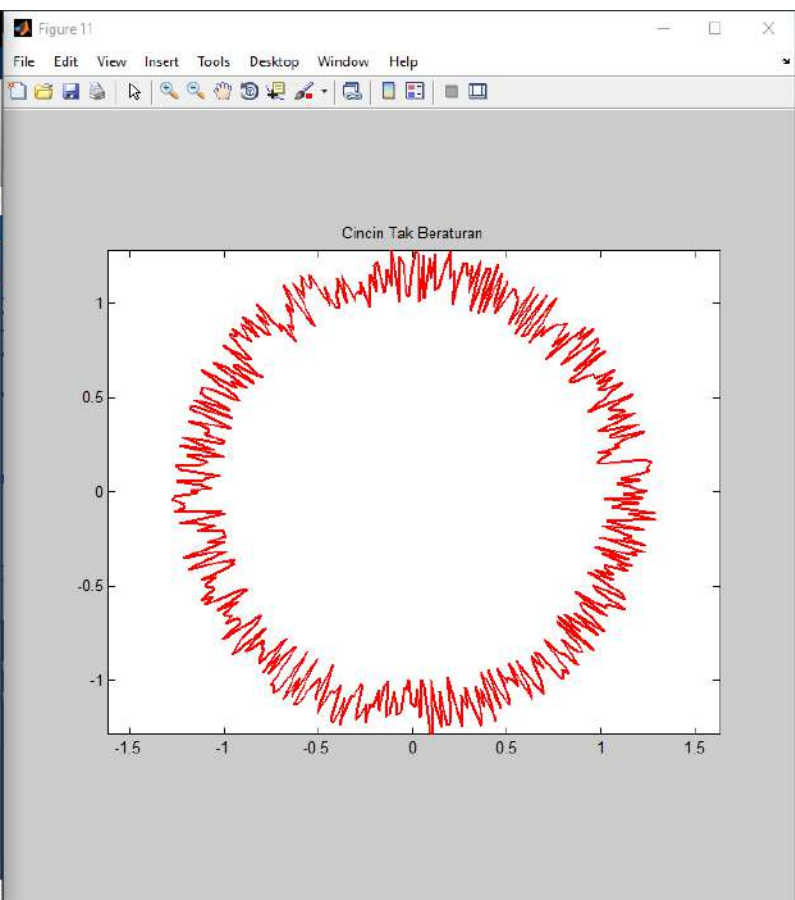
```
MATLAB R2013a

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FILE BREAKPOINTS RUN

D: \Komputasi Matematika \Tugas\tugas_4_662023003.m
tugas_4_662023003.m cobaaa.m

109 - theta = linspace(0,2*pi,n+1);
110 - r = linspace(0,1,n);
111
112 - figure(10)
113 - hold on
114 - for i=1:n
115 -     plot([0 r(i)*cos(theta(i))],[0 r(i)*sin(theta(i))],'b','LineWidth',
116 - end
117 - axis equal
118 - title('Poligon Starburst')
119
120 - % Cincin Tak Beraturan
121 - theta = linspace(0,2*pi,500);
122 - r = 1 + 0.3*rand(1,500); % radius acak kecil
123
124 - x = r .* cos(theta);
125 - y = r .* sin(theta);
126
127 - figure(11)
128 - plot(x,y,'r','LineWidth',2)
129 - axis equal
130 - title('Cincin Tak Beraturan')
131
132 - % Kurva Butterfly
133 - t = linspace(0,12*pi,1000);
134 - x = sin(t) .* (exp(cos(t)) - 2*cos(4*t) - sin(t/12).^5);
135 - y = cos(t) .* (exp(cos(t)) - 2*cos(4*t) - sin(t/12).^5);
136
<
```



```
MATLAB R2013a

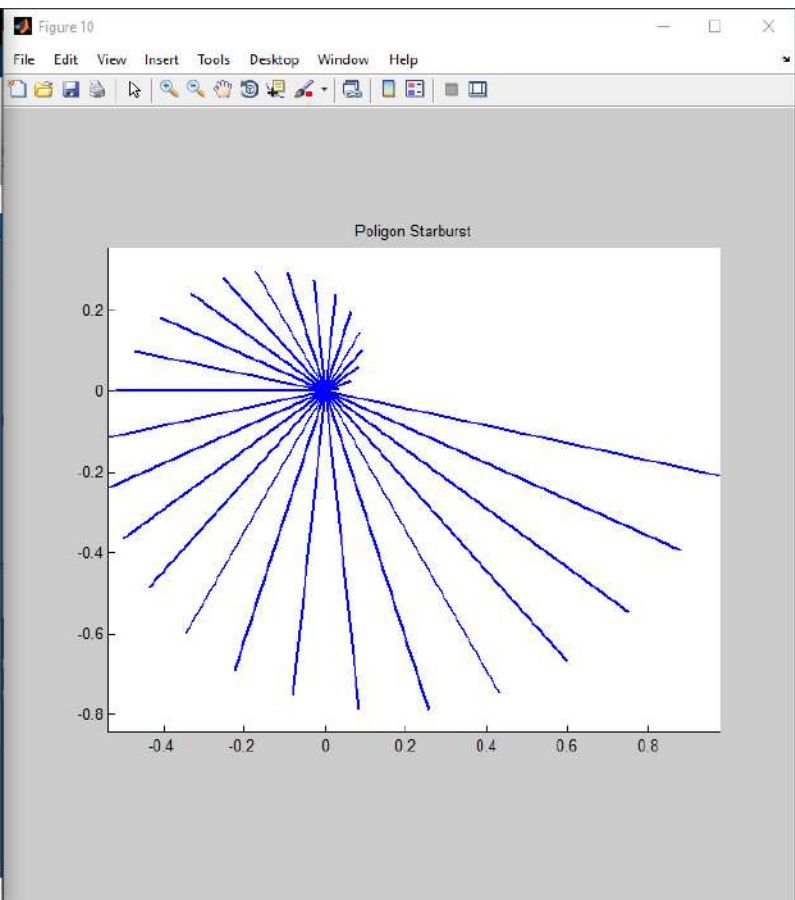
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tugas_4_662023003.m x cobaaaa.m x

97
98 % Gelombang Chaotic
99 x = linspace(-5,5,1000);
100 y = sin(x.^2) .* cos(3*x) + 0.5*sin(10*x);
101
102 figure(9)
103 plot(x,y,'m','LineWidth',1.8)
104 grid on
105 title('Gelombang Chaotic')
106
107 % Poligon Starburst
108 n = 30; % jumlah garis
109 theta = linspace(0,2*pi,n+1);
110 r = linspace(0,1,n);
111
112 figure(10)
113 hold on
114 for i=1:n
115     plot([0 r(i)*cos(theta(i))],[0 r(i)*sin(theta(i))],'b','LineWidth',1.8);
116 end
117 axis equal
118 title('Poligon Starburst')
119
120 % Cincin Tak Beraturan
121 theta = linspace(0,2*pi,500);
122 r = 1 + 0.3*rand(1,500); % radius acak kecil
123
124 x = r .* cos(theta);
```



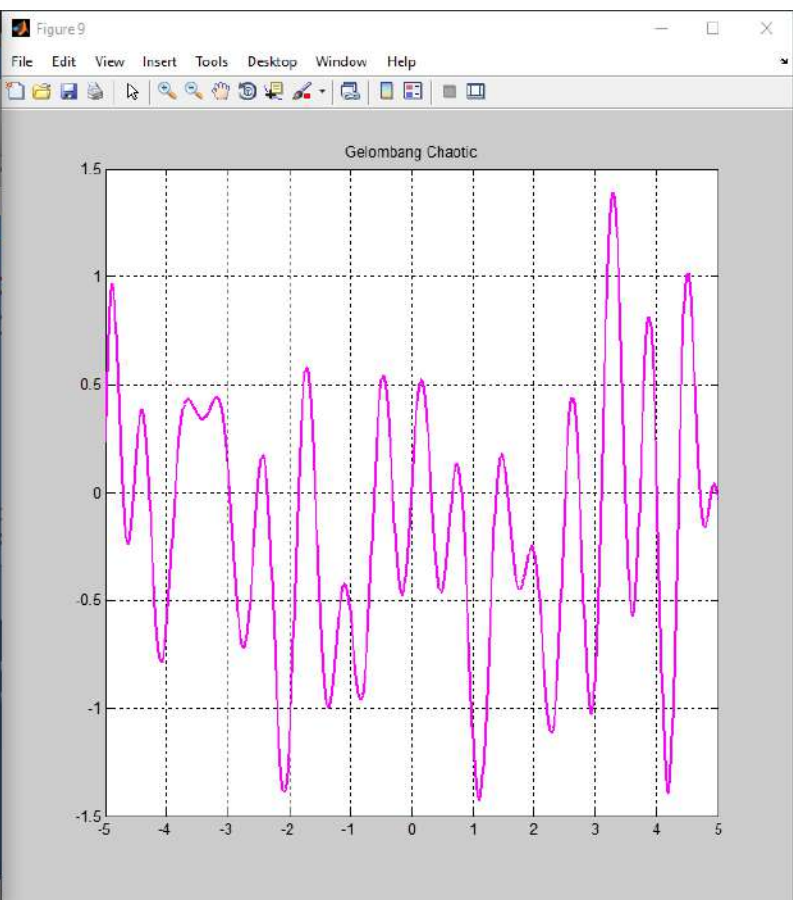
```
MATLAB R2013a

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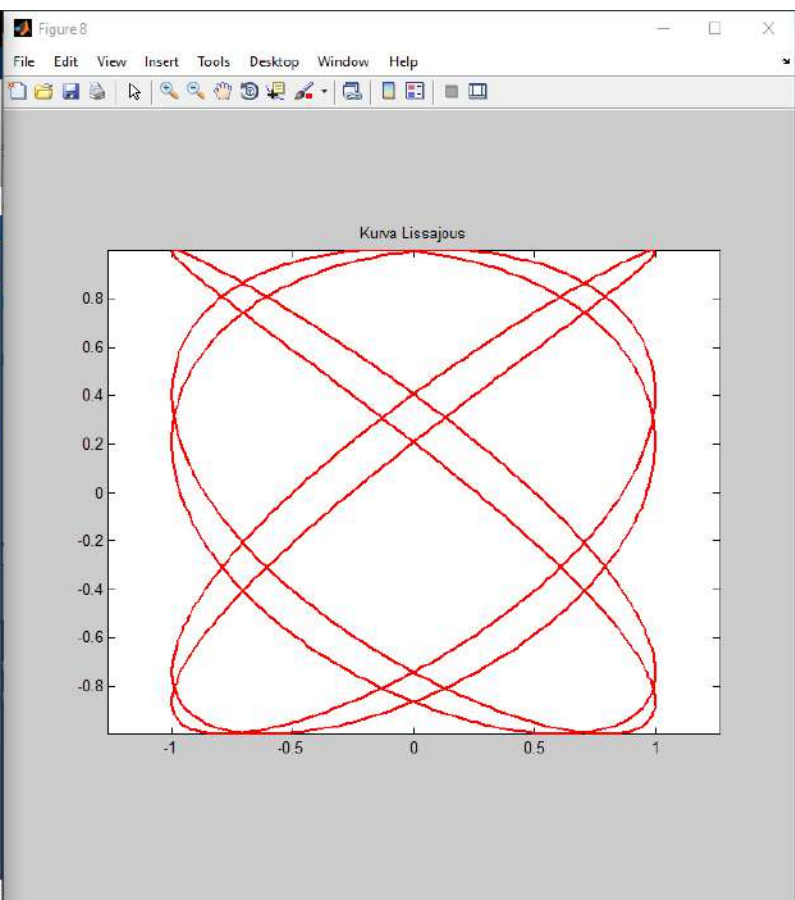
D:\Komputasi Matematika\Tugas\tugas_4_662023003.m
tugas_4_662023003.m x cobaaa.m x

84 axis equal
85
86 % Kurva Lissajous
87 t = linspace(0,2*pi,1000);
88 a = 5; b = 4; delta = pi/3;
89
90 x = sin(a*t + delta);
91 y = sin(b*t);
92
93 figure(8)
94 plot(x,y,'r','LineWidth',2)
95 axis equal
96 title('Kurva Lissajous')
97
98 % Gelombang Chaotic
99 x = linspace(-5,5,1000);
100 y = sin(x.^2) .* cos(3*x) + 0.5*sin(10*x);
101
102 figure(9)
103 plot(x,y,'m','LineWidth',1.8)
104 grid on
105 title('Gelombang Chaotic')
106
107 % Poligon Starburst
108 n = 30; % jumlah garis
109 theta = linspace(0,2*pi,n+1);
110 r = linspace(0,1,n);
111
```



MATLAB R2013a

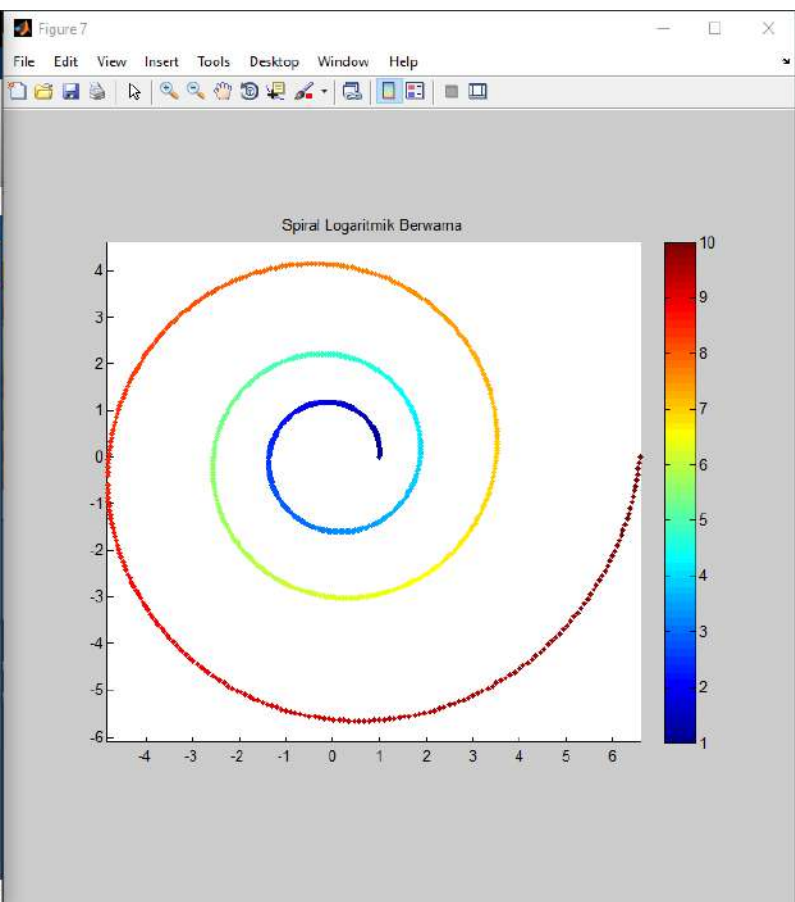
```
73 a = 0.1;
74 r = exp(a*theta);
75 x = r .* cos(theta);
76 y = r .* sin(theta);
77
78 c = linspace(1,10,length(theta));
79 figure(7)
80 scatter(x,y,5,c,'filled')
81 colormap(jet)
82 colorbar
83 title('Spiral Logaritmik Berwarna')
84 axis equal
85
86 % Kurva Lissajous
87 t = linspace(0,2*pi,1000);
88 a = 5; b = 4; delta = pi/3;
89
90 x = sin(a*t + delta);
91 y = sin(b*t);
92
93 figure(8)
94 plot(x,y,'r','LineWidth',2)
95 axis equal
96 title('Kurva Lissajous')
97
98 % Gelombang Chaotic
99 x = linspace(-5,5,1000);
100 y = sin(x.^2) .* cos(3*x) + 0.5*sin(10*x);
```



MATLAB R2013a

```
66 shading interp
67 colormap(hot)
68 title('Bunga 3D Berpolo Fraktal')
69 axis equal
70
71 % Spiral Logaritmik Berwarna
72 theta = linspace(0,6*pi,1000);
73 a = 0.1;
74 r = exp(a*theta);
75 x = r .* cos(theta);
76 y = r .* sin(theta);
77
78 c = linspace(1,10,length(theta));
79 figure (7)
80 scatter(x,y,5,c,'filled')
81 colormap(jet)
82 colorbar
83 title('Spiral Logaritmik Berwarna')
84 axis equal
85
86 % Kurva Lissajous
87 t = linspace(0,2*pi,1000);
88 a = 5; b = 4; delta = pi/3;
89
90 x = sin(a*t + delta);
91 y = sin(b*t);
92
93 figure (8)
```

script Ln 71 Col 1



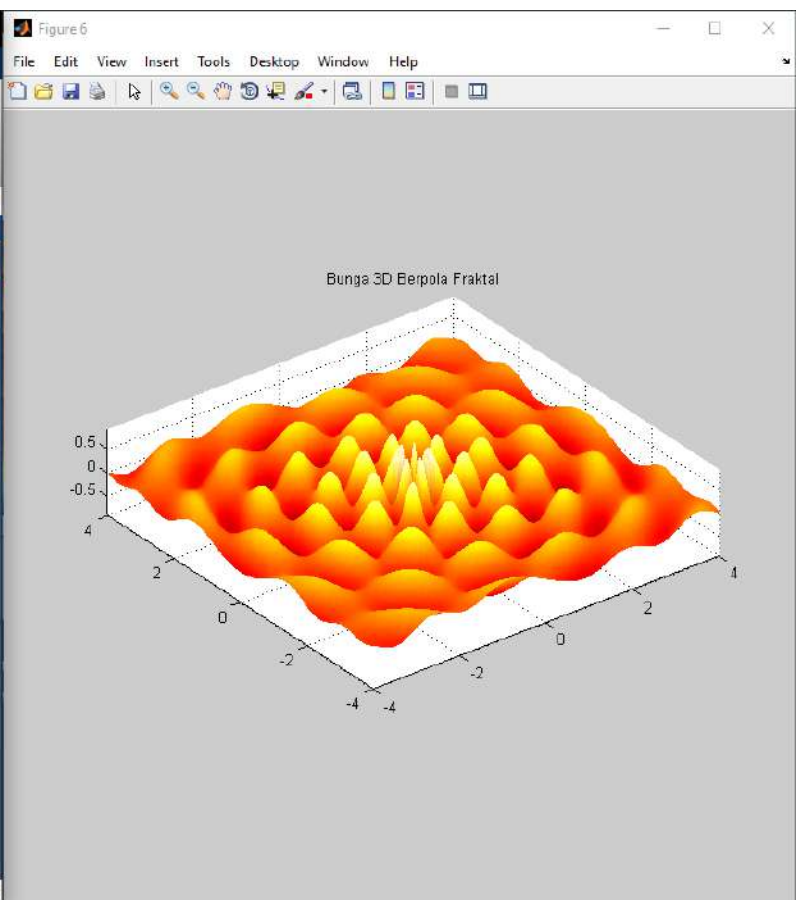
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MATLAB R2013a

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tugas_4_662023003.m x cobaaa.m x

52 - figure(5)
53 - surf(x,y,z)
54 - shading interp
55 - title('Bola Beralur')
56 - axis equal
57
58 % Bunga 3D Berpola Fraktal
59 [x,y] = meshgrid(linspace(-4,4,200));
60 r = sqrt(x.^2 + y.^2);
61 theta = atan2(y,x);
62 z = sin(5*r) .* cos(7*theta) .* exp(-0.3*r);
63
64 figure(6)
65 surf(x,y,z)
66 shading interp
67 colormap(hot)
68 title('Bunga 3D Berpola Fraktal')
69 axis equal
70
71 % Spiral Logaritmik Berwarna
72 theta = linspace(0,6*pi,1000);
73 a = 0.1;
74 r = exp(a*theta);
75 x = r .* cos(theta);
76 y = r .* sin(theta);
77
78 c = linspace(1,10,length(theta));
79 figure(7)
80
```



```
MATLAB R2013a

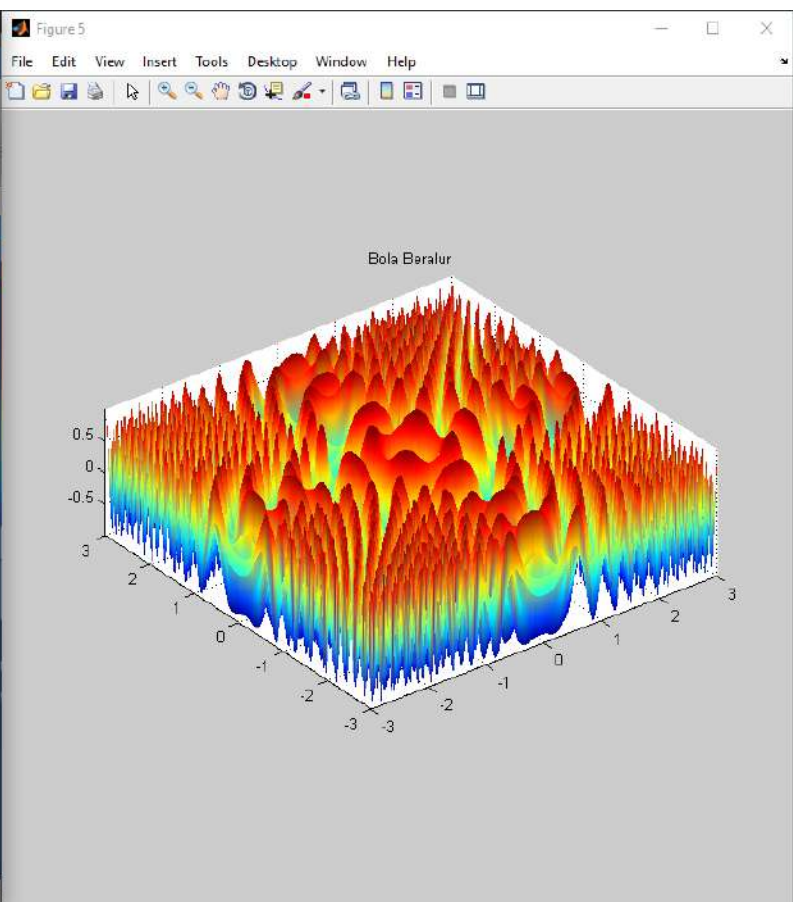
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Editor - D:\Komputasi Matematika\Tugas\tugas_4_662023003.m
tugas_4_662023003.m x cobaaa.m x

36 - axis tight
37
38 % Gelombang Jaring Jaring
39 [x,y] = meshgrid(linspace(-5,5,200));
40 z = sin(x.*y) .* cos(x - y);
41
42 figure(4)
43 surf(X,Y,Z)
44 shading interp
45 title('Gelombang Jaring Jaring')
46 axis tight
47
48 % Bola Beralur
49 [x,y] = meshgrid(linspace(-3,3,180));
50 z = sin(5*(x.^2 + y.^2)) .* cos(3*(x.^2 - y.^2));
51
52 figure(5)
53 surf(x,y,z)
54 shading interp
55 title('Bola Beralur')
56 axis equal
57
58 % Bunga 3D Berpola Fraktal
59 [x,y] = meshgrid(linspace(-4,4,200));
60 r = sqrt(x.^2 + y.^2);
61 theta = atan2(y,x);
62 z = sin(5*r) .* cos(7*theta) .* exp(-0.3*z);
63
```



```
MATLAB R2013a

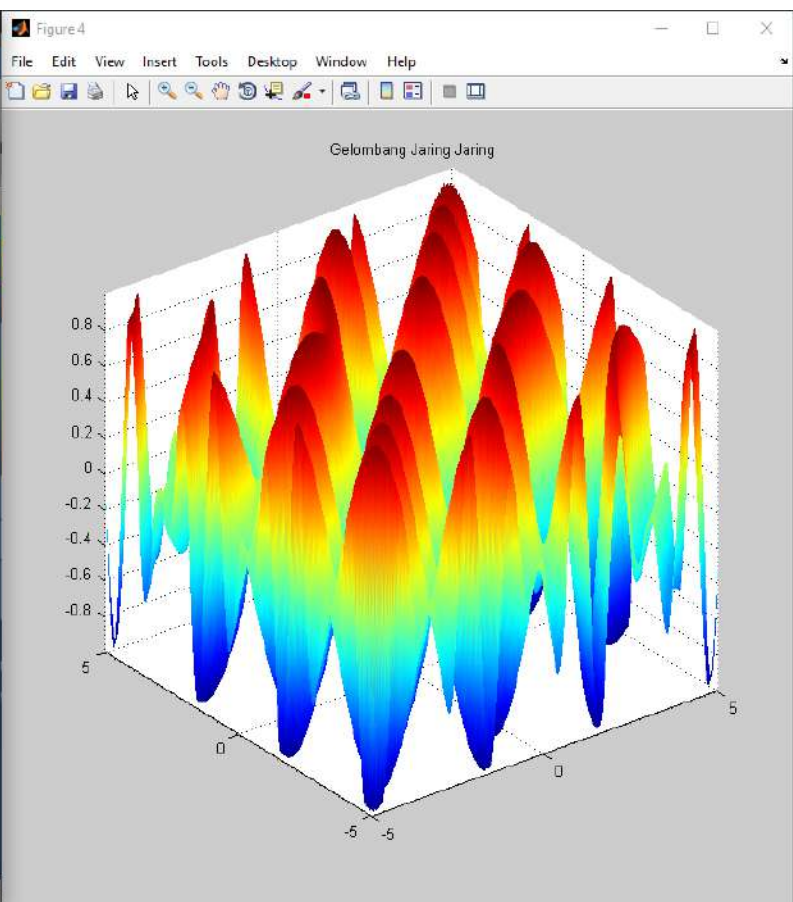
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D:\Komputasi Matematika\Tugas\tugas_4_662023003.m
tugas_4_662023003.m x cobaaa.m x

32 surf(x,y,z)
33 shading interp
34 colormap(hot)
35 title('Kubus Melengkung')
36 axis tight
37
38 % Gelombang Jaring Jaring
39 [x,y] = meshgrid(linspace(-5,5,200));
40 z = sin(x.*y) .* cos(x - y);
41
42 figure(4)
43 surf(x,y,z)
44 shading interp
45 title('Gelombang Jaring Jaring')
46 axis tight
47
48 % Bola Beralur
49 [x,y] = meshgrid(linspace(-3,3,100));
50 z = sin(5*(x.^2 + y.^2)) .* cos(3*(x.^2 - y.^2));
51
52 figure(5)
53 surf(x,y,z)
54 shading interp
55 title('Bola Beralur')
56 axis equal
57
58 % Bunga 3D Berpola Fraktal
59 [x,y] = meshgrid(linspace(-4,4,200));
```



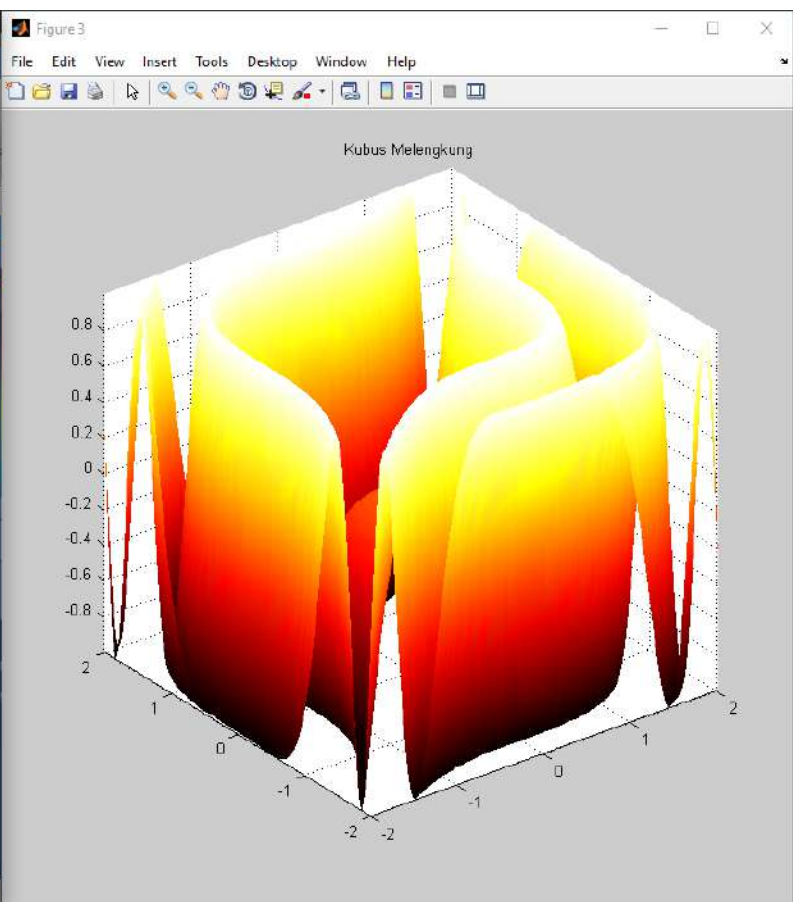

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tugas_4_662023003.m x cobaaa.m x

20
21 figure(2)
22 surf(x,y,z)
23 shading interp
24 title('Gelombang Bunga')
25 axis tight
26
27 % Kubus Melengkung
28 [x,y] = meshgrid(linspace(-2,2,150));
29 z = sin(x.^3 - y.^3);
30
31 figure(3)
32 surf(x,y,z)
33 shading interp
34 colormap(hot)
35 title('Kubus Melengkung')
36 axis tight
37
38 % Gelombang Jaring Jaring
39 [x,y] = meshgrid(linspace(-5,5,200));
40 z = sin(x.*y) .* cos(x - y);
41
42 figure(4)
43 surf(x,y,z)
44 shading interp
45 title('Gelombang Jaring Jaring')
46 axis tight
47
48 % Bola Bersinar
```



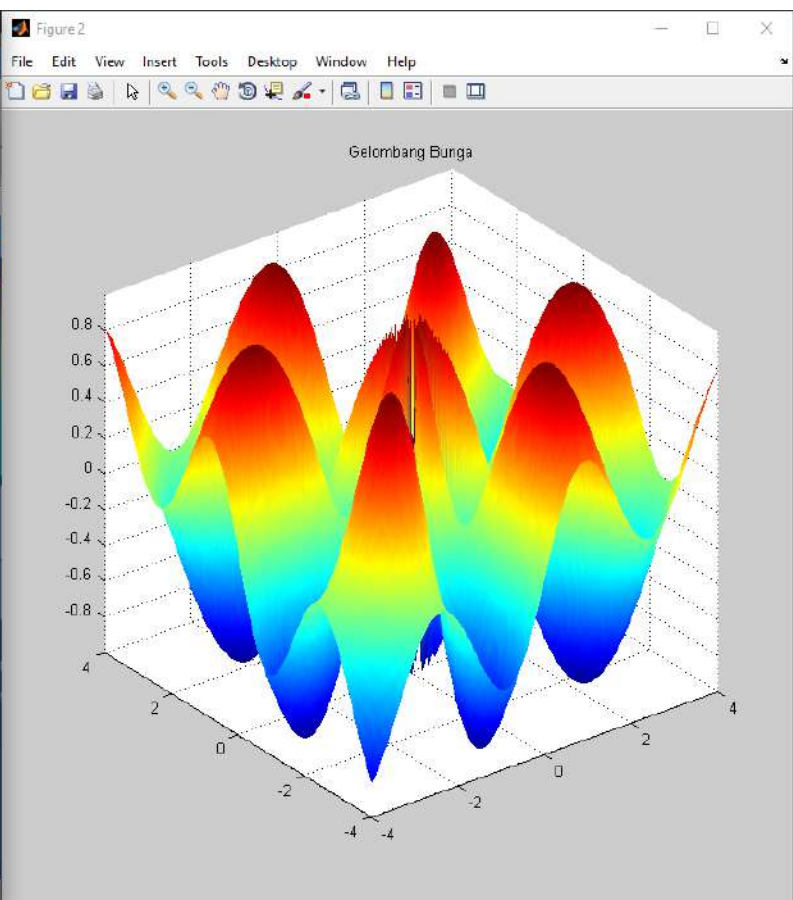

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D: \Komputasi Matematika \Tugas\tugas_4_662023003.m
tugas_4_662023003.m x cobaaa.m x

11 shading interp
12 title('Ripple Menyebar')
13 axis tight
14
15 % Gelombang Bunga
16 [x,y] = meshgrid(linspace(-4,4,200));
17 r = sqrt(x.^2 + y.^2);
18 theta = atan2(y,x);
19 z = sin(6*theta) .* cos(r);
20
21 figure(2)
22 surf(x,y,z)
23 shading interp
24 title('Gelombang Bunga')
25 axis tight
26
27 % Kubus Melengkung
28 [x,y] = meshgrid(linspace(-2,2,150));
29 z = sin(x.^3 - y.^3);
30
31 figure(3)
32 surf(x,y,z)
33 shading interp
34 colormap(hot)
35 title('Kubus Melengkung')
36 axis tight
37
38 % Gelombang Jaring Jaring
```



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Editor - D:\Komputasi Matematika\Tugas\tugas_4_662023003.m
tugas_4_662023003.m x cobaaa.m x

1 - clc
2 - clear
3
4 - % Ripple Menyebar
5 - [x,y] = meshgrid(linspace(-6,6,150));
6 - r = sqrt(x.^2 + y.^2);
7 - z = sin(5*r) ./ (1 + r.^2);
8
9 - figure(1)
10 - surf(x,y,z)
11 - shading interp
12 - title('Ripple Menyebar')
13 - axis tight
14
15 - % Gelombang Bunga
16 - [x,y] = meshgrid(linspace(-4,4,200));
17 - r = sqrt(x.^2 + y.^2);
18 - theta = atan2(y,x);
19 - z = sin(6*theta) .* cos(r);
20
21 - figure(2)
22 - surf(x,y,z)
23 - shading interp
24 - title('Gelombang Bunga')
25 - axis tight
26
27 - % Kubus Melengkung
28 - [x,y] = meshgrid(linspace(-2,2,150));
```

