% First Graph

t1 = 0:0.1:6\*pi;

x1 = sqrt(t1) .\* sin(2 \* t1);

y1 = sqrt(t1) .\* cos(2 \* t1);

z1 = t1 ./ 2;

subplot(2, 2, 1)

plot3(x1, y1, z1);

title('Graph 1');

xlabel('X-axis');

ylabel('Y-axis');

zlabel('Z-axis');

% Second Graph

[x2, y2] = meshgrid(-4:0.3:4, -4:0.3:4);

z2 = (x2.^2 + 3\*y2.^2) .\* exp(1 - x2.^2 - y2.^2);

subplot(2, 2, 2)

surf(x2, y2, z2);

title('Graph 2');

xlabel('X-axis');

ylabel('Y-axis');

zlabel('Z-axis');

% Third Graph

[x3, y3] = meshgrid(-6:0.3:6, -6:0.3:6);

z3 = sin(sqrt(x3.^2 + y3.^2)) ./ (sqrt(x3.^2 + y3.^2));

subplot(2, 2, 3)

surf(x3, y3, z3);

title('Graph 3');

xlabel('X-axis');

ylabel('Y-axis');

zlabel('Z-axis');

% Fourth Graph

t2 = 1:0.1:6\*pi;

x4 = 2 ./ t2 .\* sin(2 .\* t2);

y4 = 2 ./ t2 .\* cos(2 .\* t2);

z4 = t2 / 2;

subplot(2, 2, 4)

plot3(x4, y4, z4);

title('Graph 4');

xlabel('X-axis');

ylabel('Y-axis');

zlabel('Z-axis');