

```
d_1 = abs(sol_1.y(1,:) - double(subs(y_1_n3,'x',sol_1.x)));
max(abs(d_1))
```

```
ans =
    0.598846496555598
```

```
d_2 = abs(sol_1.y(1,:) - double(subs(y_1_n5,'x',sol_1.x)));
max(abs(d_2))
```

```
ans =
    1.834233547834963e-04
```

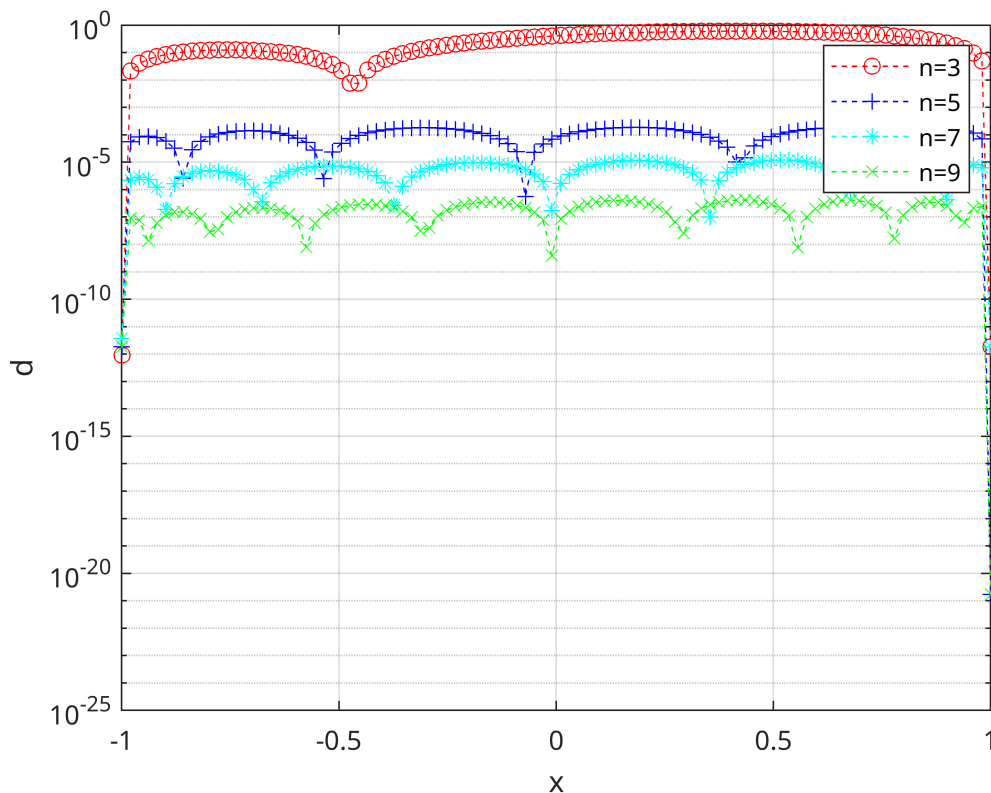
```
d_3 = abs(sol_1.y(1,:) - double(subs(y_1_n7,'x',sol_1.x)));
max(abs(d_3))
```

```
ans =
    1.198647804312447e-05
```

```
d_4 = abs(sol_1.y(1,:) - double(subs(y_1_n9,'x',sol_1.x)));
max(abs(d_4))
```

```
ans =
    4.151635376592466e-07
```

```
semilogy(sol_1.x,d_1,'--or',sol_1.x,d_2,'--+b',sol_1.x,d_3,'--*c',sol_1.x,d_4,'--xg');
grid;
ylabel('d');
xlabel('x');
legend('n=3','n=5','n=7','n=9');
```



```
d_1 = abs(sol_1.y(1,:) - double(subs(y_2_n3,'x',sol_1.x)));
max(abs(d_1))
```

```
ans =
    0.608103858698211
```

```
d_2 = abs(sol_1.y(1,:) - double(subs(y_2_n5,'x',sol_1.x)));
max(abs(d_2))
```

```
ans =
    0.001089556489876
```

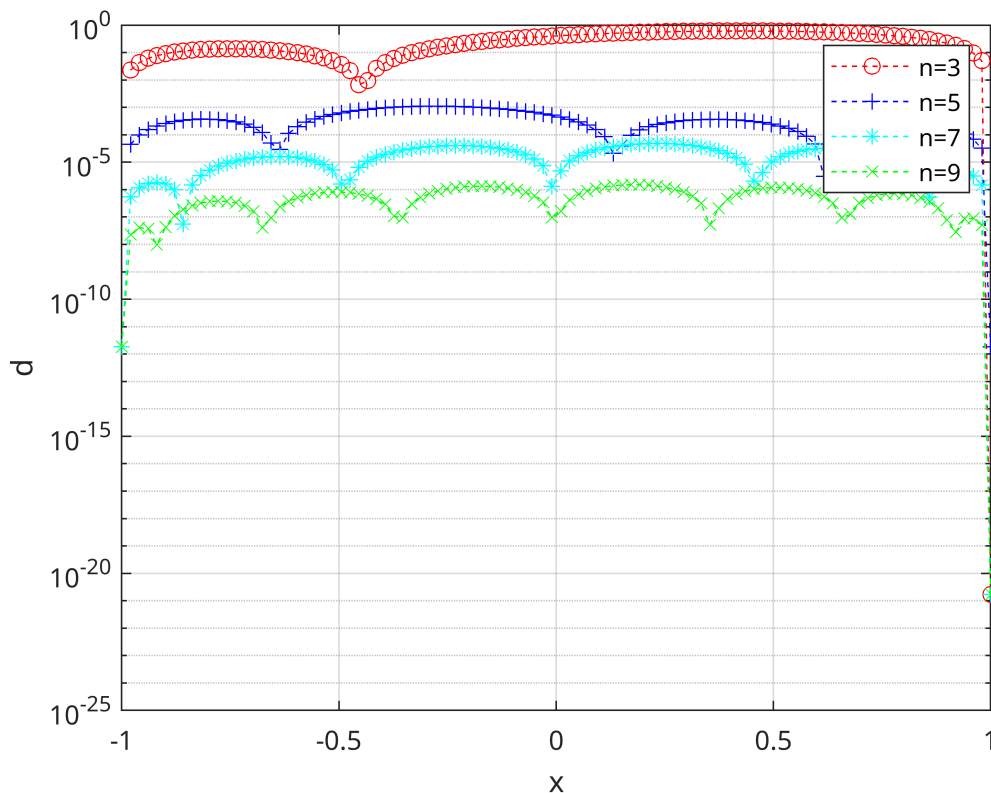
```
d_3 = abs(sol_1.y(1,:) - double(subs(y_2_n7,'x',sol_1.x)));
max(abs(d_3))
```

```
ans =
    4.741374936323428e-05
```

```
d_4 = abs(sol_1.y(1,:) - double(subs(y_2_n9,'x',sol_1.x)));
max(abs(d_4))
```

```
ans =
    1.505961890746477e-06
```

```
semilogy(sol_1.x,d_1,'--or',sol_1.x,d_2,'--+b',sol_1.x,d_3,'--*c',sol_1.x,d_4,'--xg');
grid;
ylabel('d');
xlabel('x');
legend('n=3','n=5','n=7','n=9');
```



```
d_1 = abs(sol_2.y(1,:) - double(subs(y_1_n3,'x',sol_2.x)));
max(abs(d_1))
```

```
ans =
    0.119035767970599
```

```
d_2 = abs(sol_2.y(1,:) - double(subs(y_1_n5,'x',sol_2.x)));
max(abs(d_2))
```

```
ans =
    0.003549510654867
```

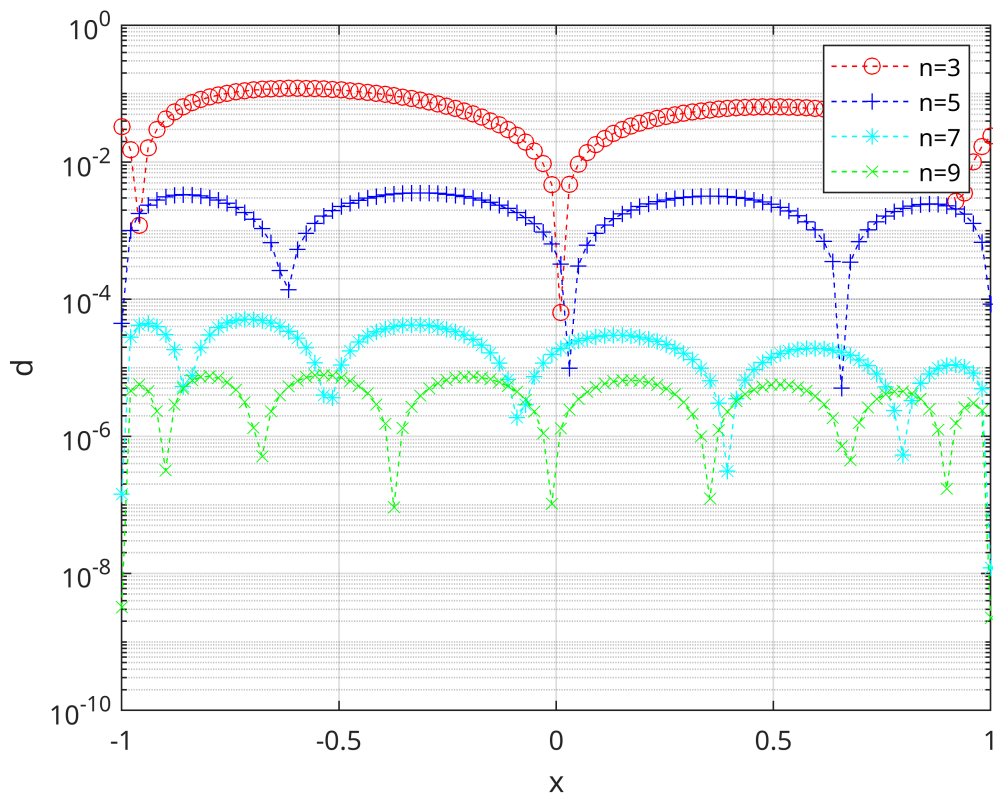
```
d_3 = abs(sol_2.y(1,:) - double(subs(y_1_n7,'x',sol_2.x)));
max(abs(d_3))
```

```
ans =
    5.068341989611369e-05
```

```
d_4 = abs(sol_2.y(1,:) - double(subs(y_1_n9,'x',sol_2.x)));
max(abs(d_4))
```

```
ans =
    7.828848849422698e-06
```

```
semilogy(sol_2.x,d_1,'--or',sol_2.x,d_2,'--+b',sol_2.x,d_3,'--*c',sol_2.x,d_4,'--xg');
grid;
ylabel('d');
xlabel('x');
legend('n=3','n=5','n=7','n=9');
```



```
d_1 = abs(sol_2.y(1,:) - double(subs(y_2_n3,'x',sol_2.x)));
max(abs(d_1))
```

```
ans =
    0.038427955677805
```

```
d_2 = abs(sol_2.y(1,:) - double(subs(y_2_n5,'x',sol_2.x)));
max(abs(d_2))
```

```
ans =
    0.001150899541593
```

```
d_3 = abs(sol_2.y(1,:) - double(subs(y_2_n7,'x',sol_2.x)));
max(abs(d_3))
```

```
ans =
    5.686780234204214e-05
```

```
d_4 = abs(sol_2.y(1,:) - double(subs(y_2_n9,'x',sol_2.x)));
max(abs(d_4))
```

```
ans =
    5.074334228355459e-05
```

```
semilogy(sol_2.x,d_1,'--or',sol_2.x,d_2,'--+b',sol_2.x,d_3,'--*c',sol_2.x,d_4,'--xg');
grid;
ylabel('d');
xlabel('x');
legend('n=3','n=5','n=7','n=9');
```

