k= 0 a1 [0.995] f1= [0.995] a2= [0.995] f2= [0.995] loss= 6.8480687

k= 200 a1 [0.49211055] f1= [0.42796484] a2= [0.49211055] f2= [0.42796484] loss= 5.821359

k= 400 a1 [0.4238301] f1= [0.3324979] a2= [0.4238301] f2= [0.3324979] loss= 5.809896

k= 600 a1 [0.4105816] f1= [0.32149822] a2= [0.4105816] f2= [0.32149822] loss= 5.8096976

k= 800 a1 [0.4042718] f1= [0.32485238] a2= [0.4042718] f2= [0.32485238] loss= 5.809674

k= 1000 a1 [0.3974519] f1= [0.33073908] a2= [0.3974519] f2= [0.33073908] loss= 5.809646

k= 1200 a1 [0.38923806] f1= [0.33824044] a2= [0.38923806] f2= [0.33824044] loss= 5.809609

k= 1400 a1 [0.37938502] f1= [0.34770477] a2= [0.37938502] f2= [0.34770477] loss= 5.8095617

k= 1600 a1 [0.36761907] f1= [0.35972735] a2= [0.36761907] f2= [0.35972735] loss= 5.8095

k= 1800 a1 [0.35359594] f1= [0.37519595] a2= [0.35359594] f2= [0.37519595] loss= 5.8094163

k= 2000 a1 [0.33690152] f1= [0.3954578] a2= [0.33690152] f2= [0.3954578] loss= 5.809299

k= 2200 a1 [0.31708246] f1= [0.42260128] a2= [0.31708246] f2= [0.42260128] loss= 5.8091335

k= 2400 a1 [0.29375133] f1= [0.45991927] a2= [0.29375133] f2= [0.45991927] loss= 5.8088827

k= 2600 a1 [0.2668376] f1= [0.51264143] a2= [0.2668376] f2= [0.51264143] loss= 5.808486

k= 2800 a1 [0.23701763] f1= [0.589083] a2= [0.23701763] f2= [0.589083] loss= 5.8078175

k= 3000 a1 [0.20613039] f1= [0.7028733] a2= [0.20613039] f2= [0.7028733] loss= 5.8066

k= 3200 a1 [0.17733783] f1= [0.87962294] a2= [0.17733783] f2= [0.87962294] loss= 5.804085

k= 3400 a1 [0.15686446] f1= [1.1852793] a2= [0.15686446] f2= [1.1852793] loss= 5.797311

k= 3600 a1 [0.1957322] f1= [1.9693803] a2= [0.1957322] f2= [1.9693803] loss= 5.748085

k= 3800 a1 [1.5114464] f1= [5.823793] a2= [1.5114464] f2= [5.823793] loss= 1.648147

k= 4000 a1 [1.4866353] f1= [6.058925] a2= [1.4866353] f2= [6.058925] loss= 1.5597668

k= 4200 a1 [1.4866353] f1= [6.058925] a2= [1.4866353] f2= [6.058925] loss= 1.5597668

k= 4400 a1 [1.4866353] f1= [6.058925] a2= [1.4866353] f2= [6.058925] loss= 1.5597668

k= 4600 a1 [1.4866353] f1= [6.058925] a2= [1.4866353] f2= [6.058925] loss= 1.5597668

k= 4800 a1 [1.4866353] f1= [6.058925] a2= [1.4866353] f2= [6.058925] loss= 1.5597668

k= 5000 a1 [1.4866353] f1= [6.058925] a2= [1.4866353] f2= [6.058925] loss= 1.5597668

k= 5200 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 5400 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 5600 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 5800 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 6000 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 6200 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 6400 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 6600 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 6800 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 7000 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 7200 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 7400 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 7600 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 7800 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 8000 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 8200 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 8400 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 8600 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 8800 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 9000 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 9200 a1 [1.4866352] f1= [6.058925] a2= [1.4866352] f2= [6.058925] loss= 1.5597669

k= 9400 a1 [1.4866351] f1= [6.0589256] a2= [1.4866351] f2= [6.0589256] loss= 1.5597669

k= 9600 a1 [1.4866351] f1= [6.0589256] a2= [1.4866351] f2= [6.0589256] loss= 1.5597669

k= 9800 a1 [1.4866352] f1= [6.0589256] a2= [1.4866352] f2= [6.0589256] loss= 1.5597669

The line of this equation is:

y(f1,f2)=1.4866351\*sin(6.0589256X) + 1.4866351\*sin(6.0589256X)

-2.708480554807646

Success