Function		Search space	Global Min	Properties
Ackley	$f(x) = -20\exp\left(-0.2\sqrt{\frac{1}{d}\sum_{i=1}^{d} x_i^2}\right) - \exp\left(\frac{1}{d}\sum_{i=1}^{d}\cos(2\pi x_i)\right) + 20 + \exp(1)$	[-32.768, 32768] for all x_i	f(x)=0, where $((x_1, x_2, \dots, x_d) = (0,0, \dots 0)$	Numerous local, one global, multimodal, continuous, differentiable, non-separable, scalable
Griewank	$f(x) = \sum_{i=1}^{d}\frac{x_i^2}{4000} - \prod_{i=1}^{d}\cos\left(\frac{x_i}{\sqrt{i}}\right) + 1$	[-600, 600] for all x_i	f(x)=0, where $((x_1, x_2, \dots, x_d) = (0,0, \dots 0)$	Many local, one global, multimodal, continuous, differentiable, non-separable, scalable
Schwefel	$f(x) = 418.9829d - \sum_{i=1}^{d} x_i \sin\left(\sqrt{\lvert x_i\rvert}\right)$	[-500, 500] for all x_i	f(x)=0, where $((x_1, x_2, \dots, x_d) = (420.9687,420.9687, \dots,420.9687)$	Many local, one global, multimodal, continuous, differentiable, separable, scalable
Rastrigin	$f(x) = 10d + \sum_{i=1}^{d}[x_i^2 - 10\cos(2\pi x_i)]$	[-5.12, 5.12] for all x_i	f(x)=0, where $((x_1, x_2, \dots, x_d) = (0,0, \dots 0)$	Many local, one global, multimodal
Sphere	$f(x) = \sum_{i=1}^{d} x_i^2$	[-5.12, 5.12] for all x_i	f(x)=0, where $((x_1, x_2, \dots, x_d) = (0,0, \dots 0)$	d local minima, one global, continuous, convex, unimodal
Perm	$f(x) = \sum_{i=1}^{d}\left(\sum_{j=1}^{d}(j+10)\left(x_j^i - \frac{1}{j^i}\right)\right)^2$	[-d, d] for all x_i	f(x)=0, where $((x_1, x_2, \dots, x_d) = \left(1, \frac{1}{2}, \dots, \frac{1}{d}\right)$	
Zakharov	$f(x) = \sum_{i=1}^{d} x_i^2 + \left(\sum_{i=1}^{d} 0.5ix_i\right)^2 + \left(\sum_{i=1}^{d} 0.5ix_i\right)^4$	[-5, 10] for all x_i	f(x)=0, where $((x_1, x_2, \dots, x_d) = (0,0, \dots 0)$	No local minima, one global, continuous
Rosenbrock	$f(x) = \sum_{i=1}^{d-1}[100(x_{i+1} - x_i^2)^2 + (x_i - 1)^2]$	[-2048, 2048], for all x_i	f(x)=0, where $((x_1, x_2, \dots, x_d) = (1,1, \dots 1)$	Continuous, Differentiable, Non-Separable, Scalable, Unimodal
Dixon-Price	$f(x) = (x_1 - 2)^2 + \sum_{i=2}^{d} i\,(2x_i^2 - x_{i-1})^2$	[-10,10] for all x_i	f(x)=0 where $x_i = 2^{-\frac{2^i - 2}{2^i}}$	Valley-Shaped

Detaylı bilgiler ve örnek kodlar için: https://www.sfu.ca/~ssurjano/optimization.html
https://en.wikipedia.org/wiki/Test_functions_for_optimization ,
http://yapbenzet.kocaeli.edu.tr/wp-content/uploads/benchmark_fonksiyonlar.pdf