```mathematica
λ = N[Sqrt[5] - 1] / 2;
φ[_][x_] := x;
φ[ns___, n_, ff_ (* "flat fraction" *)][x_] := Module[
   {
    s = Times[ns, n],
    x0, y0, x1, y1, mu, nu
   },
  y0 = φ[ns, ff][x0 = Floor[s * x] / s];
  y1 = φ[ns, ff][x1 = x0 + 1 / s];
  mu = 1 / s;
  If[(1 - ff) / 2 < (x - x0) * s < (1 + ff) / 2, Return[(y0 + y1) / 2 + mu * (x - (x0 + x1) / 2)]];
  nu = ((y1 - y0) / (x1 - x0) - mu * ff) / (1 - ff);
  If[(x - x0) * s < 1 / 2, Return[y0 + nu * (x - x0)]];
  y1 + nu * (x - x1)
 ]

Plot[{φ[0.5][x], φ[2, 0.5][x], φ[2, 4, 0.5][x]},
 {x, 0, 1}, PlotPoints → 33, MaxRecursion → 0, Exclusions → None]
```
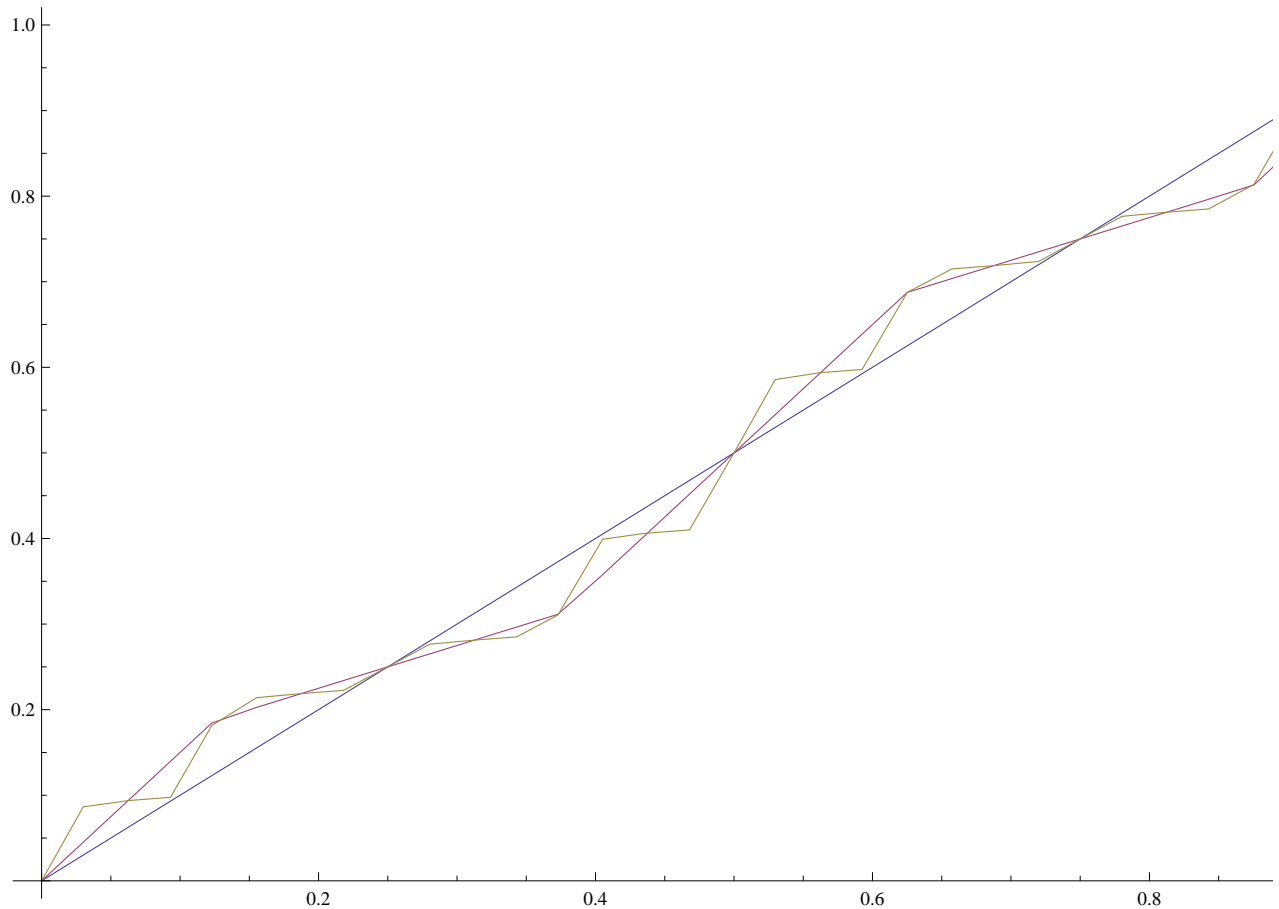
```
Rasterize[
 Plot3D[ϕ[2, 4, 0.5][x] + λ * ϕ[2, 4, 0.5][y], {x, 0, 1}, {y, 0, 1},
  PlotPoints → 33, Mesh → 33, MaxRecursion → 0, Exclusions → None
 ]]
```