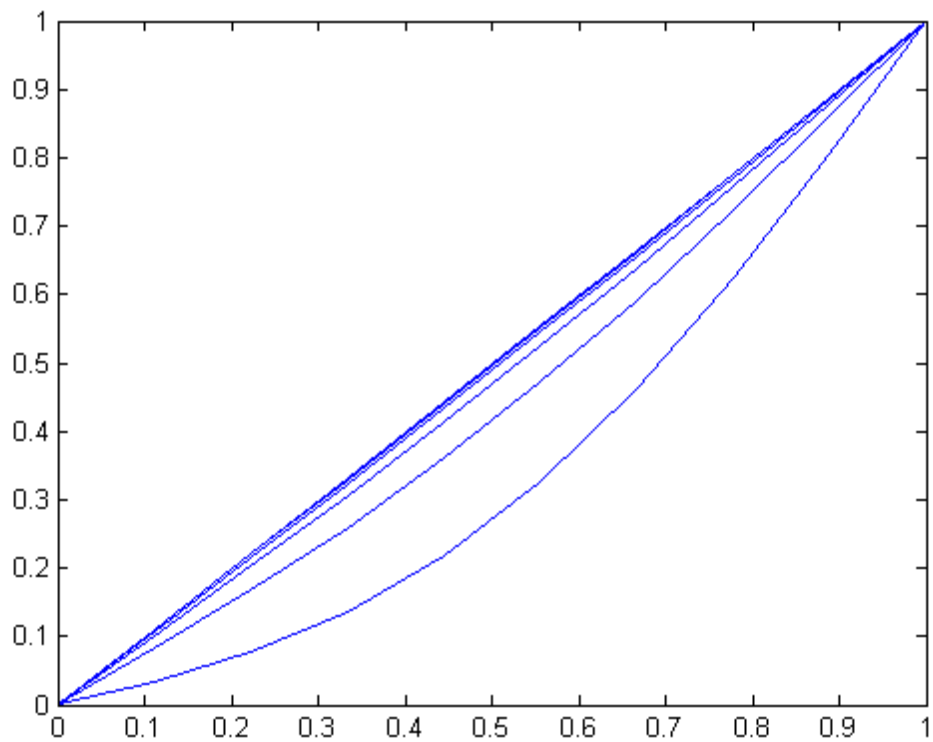

```
M = 10;  
N = 20;  
ustart = zeros(1,M);  
  
for t = [0,0.1,0.2,0.3,0.4,0.5]  
    dt = 0.1/N;  
    x = linspace(0,1,M);  
    dx = 1/(M-1);  
    r = dt/dx.^2;  
    u = varmeledning(ustart,0,1,N,r);  
    plot(x,u)  
    hold on  
    ustart = u;  
end
```



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