

MA 711 F07 : Example where all 4 Dini derivatives are unequal

```
f[x_] := (1 + HeavisideTheta[x]) * x * Sin[1/x]
```

```
Plot[f[x], {x, -1, 1}, Exclusions -> {x == 0},  
PlotStyle -> {Thickness[.003]}, AspectRatio -> Automatic]
```

