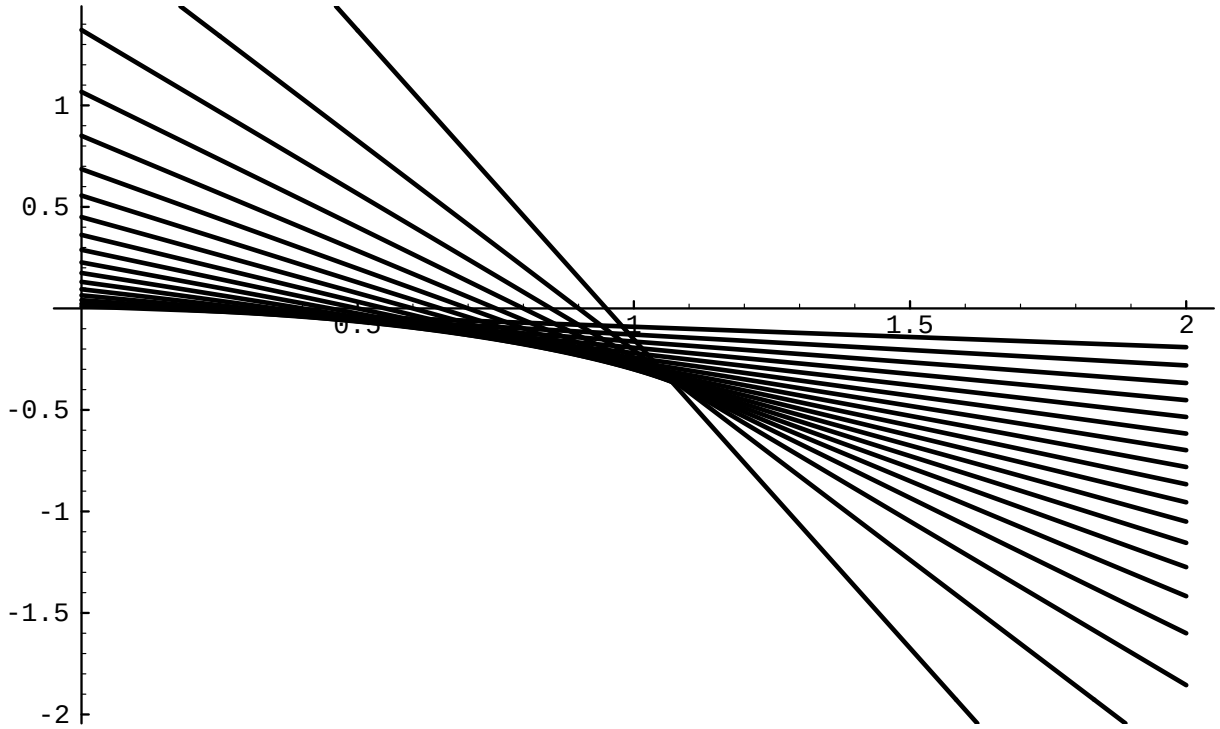
```
Omega[k_] := Sqrt[k^4 - k^2]

fn[k_] := ( 1. - k x)/Omega[k]

ks = Table[ 1/j, {j, .1, .95, .05}]
```

```
{10., 6.66667, 5., 4., 3.33333, 2.85714, 2.5, 2.22222, 2.,
  1.81818, 1.66667, 1.53846, 1.42857, 1.33333, 1.25, 1.17647,
  1.11111, 1.05263}
```

```
Plot[Evaluate[fn[ks]], {x, 0, 2}]
```




```
-Graphics-
```

```
fn[.1]
```

```
(0. - 10.0504 I) (1. - 0.1 x)
```