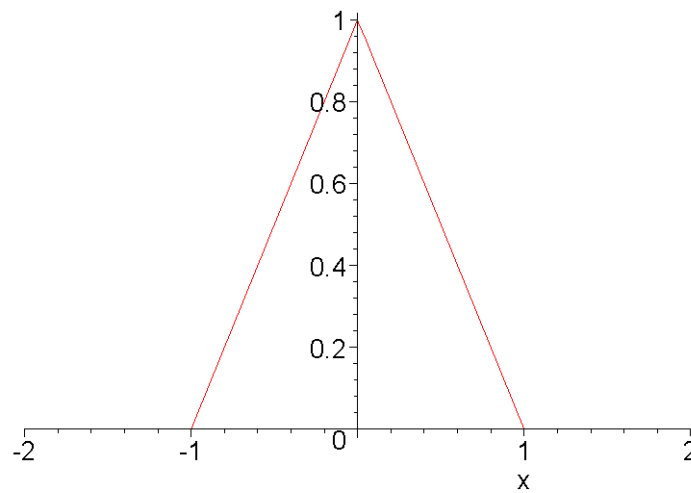


```

> f:= x-> piecewise(x<-1,0,x>=-1 and x<0,x+1,x>=0 and
  x<1,1-x,x>=1,0); # f(x) is the initial displacement
  f:=x → piecewise(x<-1,0,-1≤x and x<0,x+1,0≤x and x<1,1-x,1≤x,0)
> plot(f(x),x=-2..2);

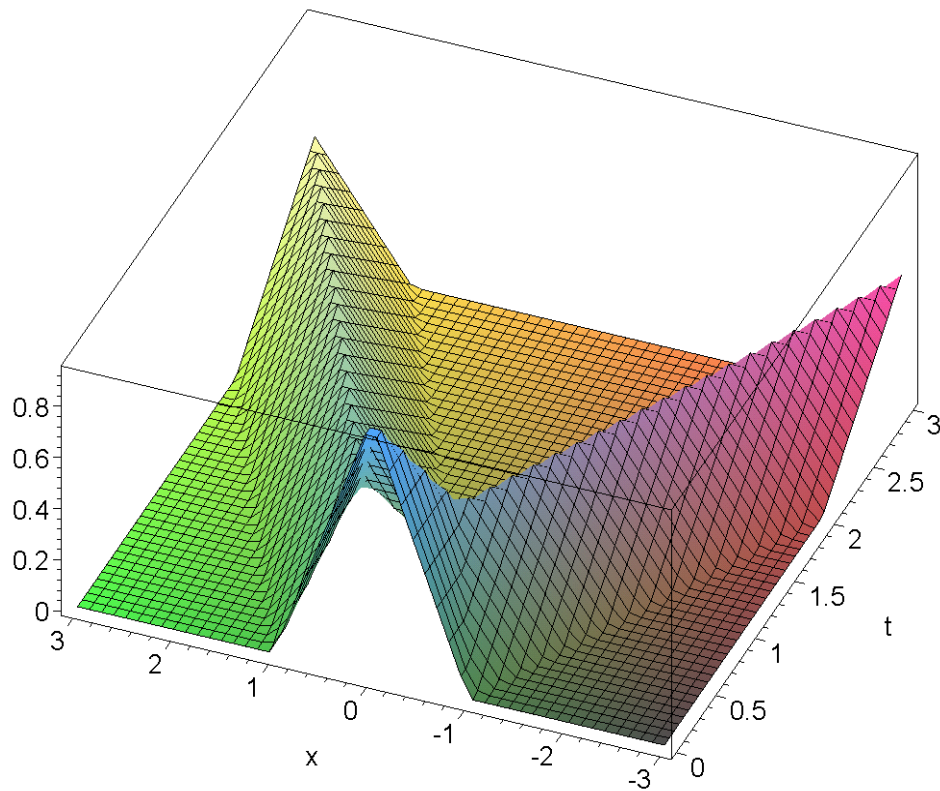
```



```

> u:= (x,t)-> 0.5*(f(x+t)+f(x-t)): # with initial velocity = 0, this
  is d'Alembert solution
> plot3d(u(x,t),t=0..3,x=-3..3,axes=BOXED,grid=[50,50]);

```



```

[ >

```