
Wave Propagation

```
Clear["Global`*"];  
Off[General::spell1];
```

■ Define a Cosine propagating in the +x direction with v=1

```
Coord[x_, t_] = {x, Cos[x - t]};
```

■ Make up a graph of a x as a function of t and make a movie

```
Clear[plot]; plot[t_] := ParametricPlot[Evaluate[Coord[x, t]], {x, -5, 25},  
  GridLines → Automatic, Frame → True, PlotRange → {{-5, 25}, {-1.2, 1.2}},  
  PlotStyle → {RGBColor[0, 0, 1]}, FrameLabel → {"x", "f"}, RotateLabel → False];
```

```
plotarray = Table[plot[tp], {tp, 0, 20, 1}];
```

