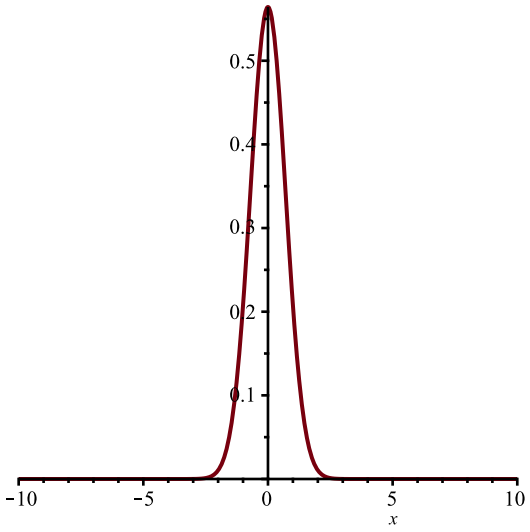
```
> with(plots);
```

[*animate*, *animate3d*, *animatecurve*, *arrow*, *changecoords*, *complexplot*, *complexplot3d*, *conformal*, *conformal3d*, *contourplot*, *contourplot3d*, *coordplot*, *coordplot3d*, *densityplot*, *display*, *dualaxisplot*, *fieldplot*, *fieldplot3d*, *gradplot*, *gradplot3d*, *implicitplot*, *implicitplot3d*, *inequal*, *interactive*, *interactiveparams*, *intersectplot*, *listcontplot*, *listcontplot3d*, *listdensityplot*, *listplot*, *listplot3d*, *loglogplot*, *logplot*, *matrixplot*, *multiple*, *odeplot*, *pareto*, *plotcompare*, *pointplot*, *pointplot3d*, *polarplot*, *polygonplot*, *polygonplot3d*, *polyhedra_supported*, *polyhedraplot*, *rootlocus*, *semilogplot*, *setcolors*, *setoptions*, *setoptions3d*, *shadebetween*, *spacecurve*, *sparsematrixplot*, *surfdata*, *textplot*, *textplot3d*, *tubeplot*] **(1)**

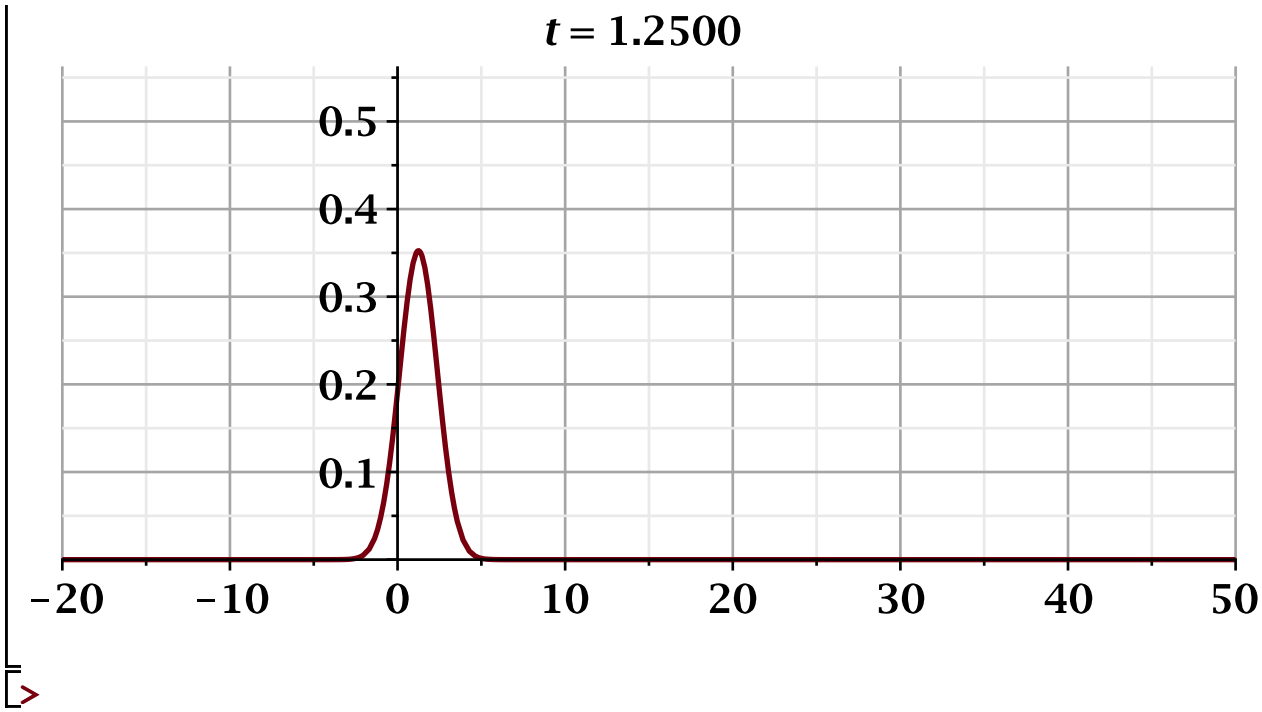
```
> P := (x, t, d, v) -> 1/sqrt(Pi*(d^2 + t^2/d^2)) * exp(-(x - v*t)^2/(d^2 + t^2/d^2));
```

$$P := (x, t, d, v) \mapsto \frac{e^{-\frac{(x - v\cdot t)^2}{d^2 + \frac{t^2}{d^2}}}}{\sqrt{\pi\cdot\left(d^2 + \frac{t^2}{d^2}\right)}} \quad \textbf{(2)}$$

```
> plot(P(x, 0, 1, 1), x = -10..10);
```




```
>
> animate(plot, [P(x, t, 1, 1), x = -20..50], t = 0..30, thickness = 2, gridlines, color = "red", font = ['Times','bold', 24], labelfont = ['Times','bold', 24]);
```


t = 1.2500
0.5
0.4
0.3
0.2
0.1
−20
−10
0
10
20
30
40
50
>