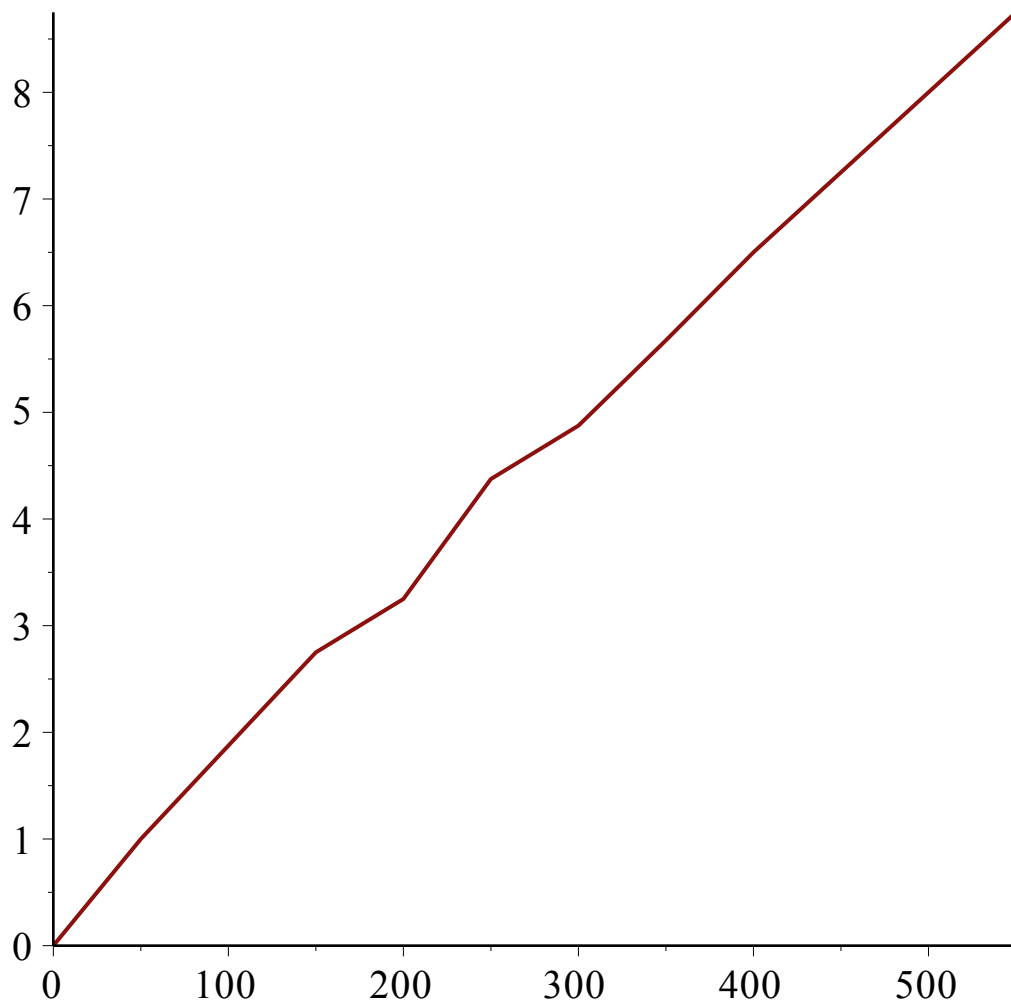


$$0.9439579117 \quad (1)$$
$$Digits := 50 \tag{2}$$
$$0.94395791167295646278084125512862024305593355712187 \quad (3)$$
$$2 x \cos(x^2) \ln\left(\frac{1}{x^3 + 1}\right) - \frac{3 \sin(x^2) x^2}{x^3 + 1} \quad (4)$$
$$-\cos(x) x^2 + 2 \cos(x) + 2 \sin(x) x \quad (5)$$
$$\sin(x) x^2 \tag{6}$$

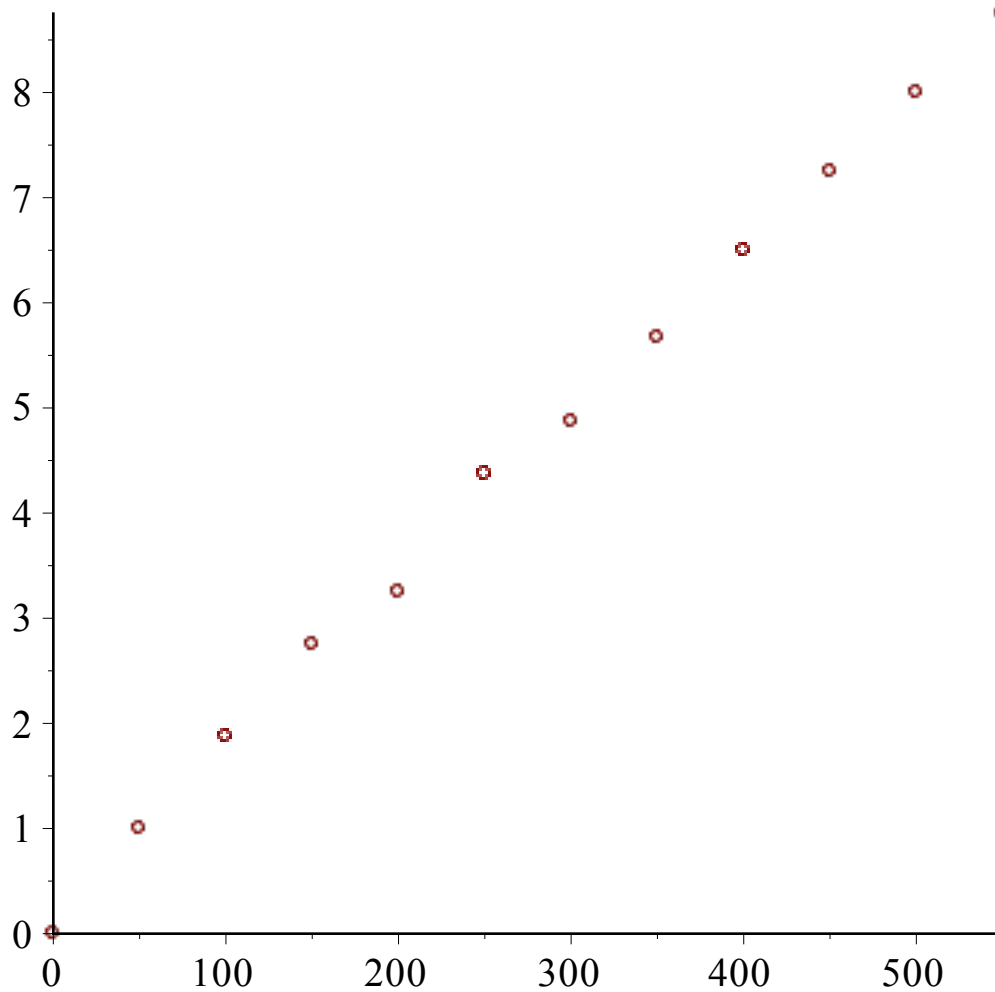
?gradient

$$pts := [[0, 0], [50, 1.000], [100, 1.875], [150, 2.75], [200, 3.25], [250, 4.375], [300, 4.875], [350, 5.675], [400, 6.5], [450, 7.25], [500, 8], [550, 8.75]] \quad (7)$$
$$[100, 1.875] \quad (8)$$

```
plot( pts );
```



```
> plot(pts, style = point, symbol = circle);
```



```
> nops( pts );
```

12

(9)

$$\triangleright \textit{slpe} := \frac{(pts[12][2] - pts[9][2])}{pts[12][1] - pts[9][1]},$$
[illegible]

(10)

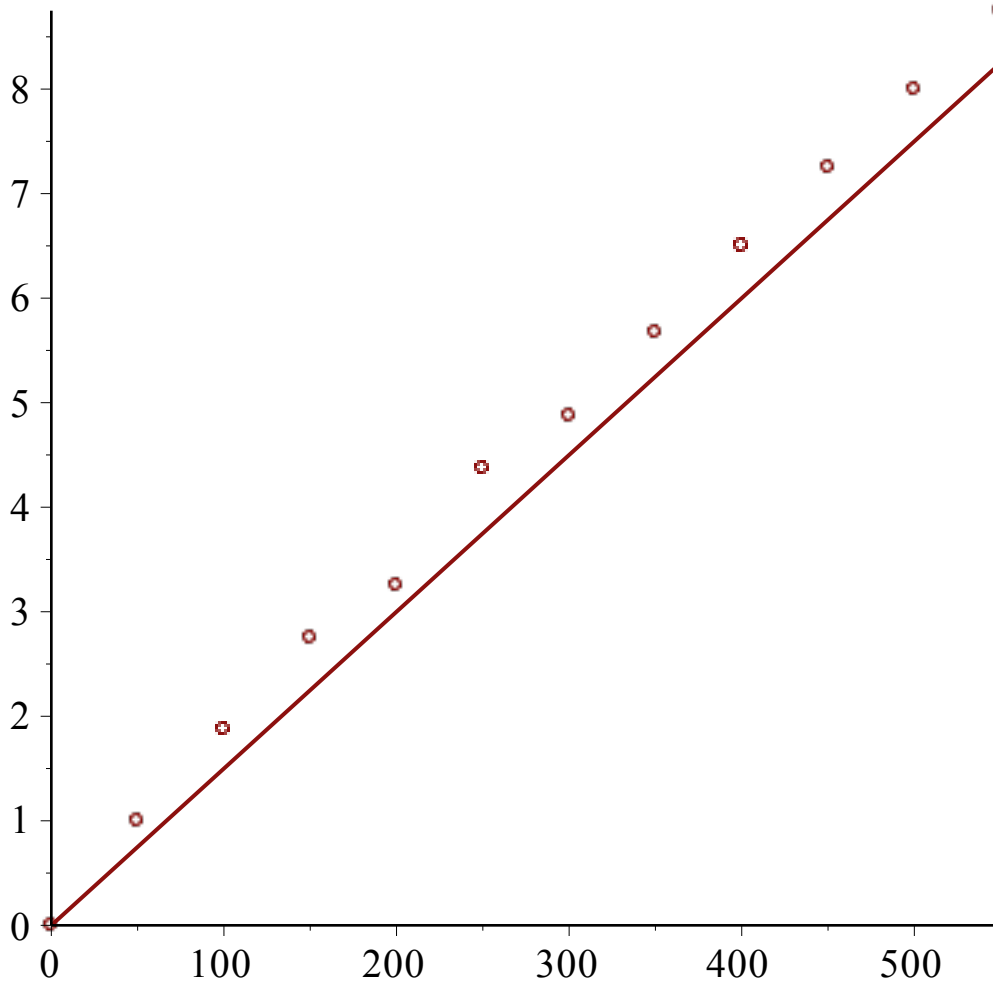
```
> with(plots);
```

[*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*]

(11)

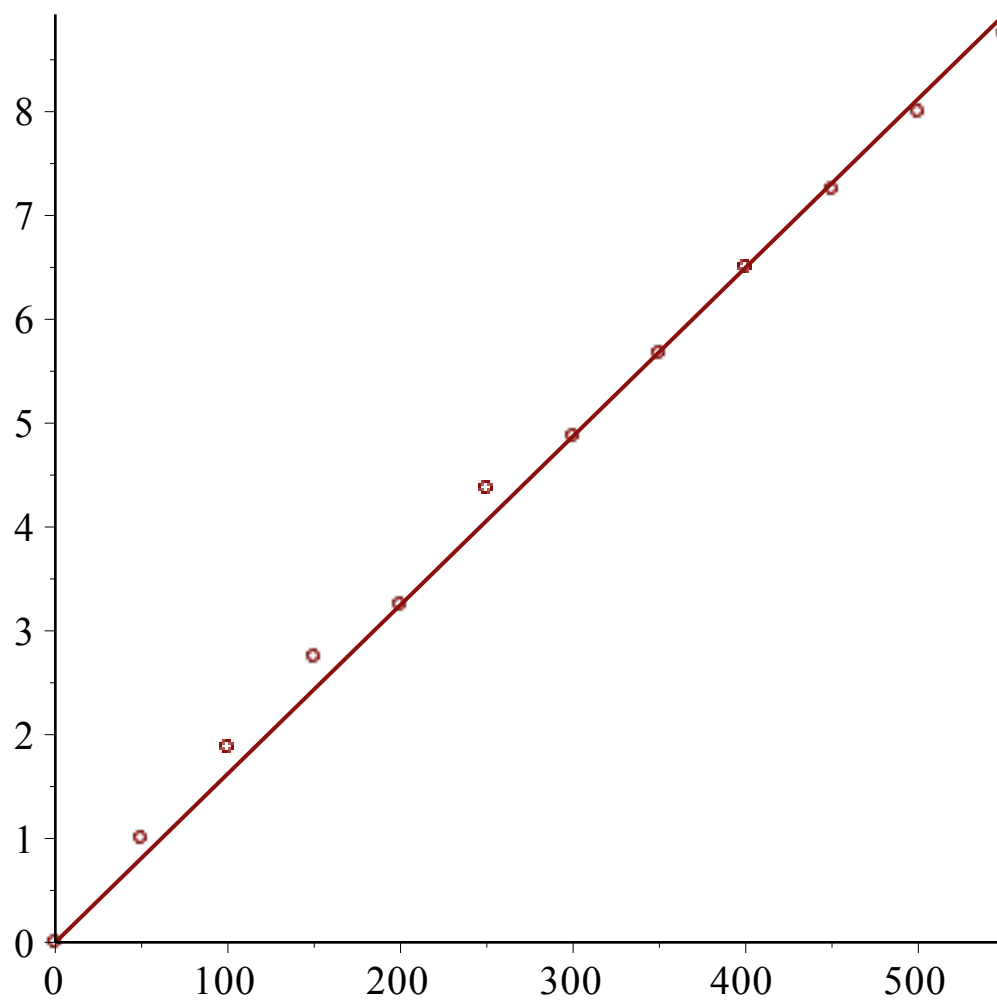
```
> plot1 := plot(pts, style = point, symbol = circle) :
```

```
> display([plot1, plot2]);
```


$$slope := 0.01625000$$

(12)

```
> display([plot1, plot2]);
```



```
> plot2 := plot(slope·x, x = 0 .. 550, color = aquamarine) :  
> display([plot1, plot2]);
```