$$| \mathbf{x}| = \arcsin\left(\sqrt{\frac{((-12) \cdot 1.000059)}{(-12 + 1.00059) \cdot 2.04}}\right)$$

$$| \mathbf{x}| = \arcsin\left(\sqrt{\frac{(-12 \cdot 1.000059)}{(-12 + 1.00059) \cdot 2.04}}\right);$$

$$| \mathbf{x}| = \cos\left(\sqrt{\frac{(-12 \cdot 1.000059)}{(-12 + 1.00059) \cdot 2.04}}\right);$$

$$| \mathbf{x}| = \cos\left(\sqrt{\frac{(-12 \cdot 1.000293)}{(-12 + 1.000293 \cdot 2.04)}}\right);$$

$$| \mathbf{x}| = \cos\left(\frac{180}{\pi} \cdot \mathbf{b}\right)$$

$$| \mathbf{x}| = \cos\left(\frac{180}{\pi} \cdot \mathbf{b}\right)$$

$$| \mathbf{x}| = \cos\left(\frac{1.000293}{1.429} \cdot \cos(x)\right)$$

$$| \mathbf{x}| = \cos\left(\frac{1.000293}{1.429} \cdot \sin(x)\right)$$

$$| \mathbf{x}| = \cos\left(\frac{1.429}{\sin(b) + \frac{(-1) \cdot 1.000293 \cos(x)}{1.429}}\right)$$

$$| \mathbf{x}| = \sin\left(\frac{1.429}{\sin(b) + \frac{(-1) \cdot 1.000293 \cos(x)}{1.429}}\right)$$

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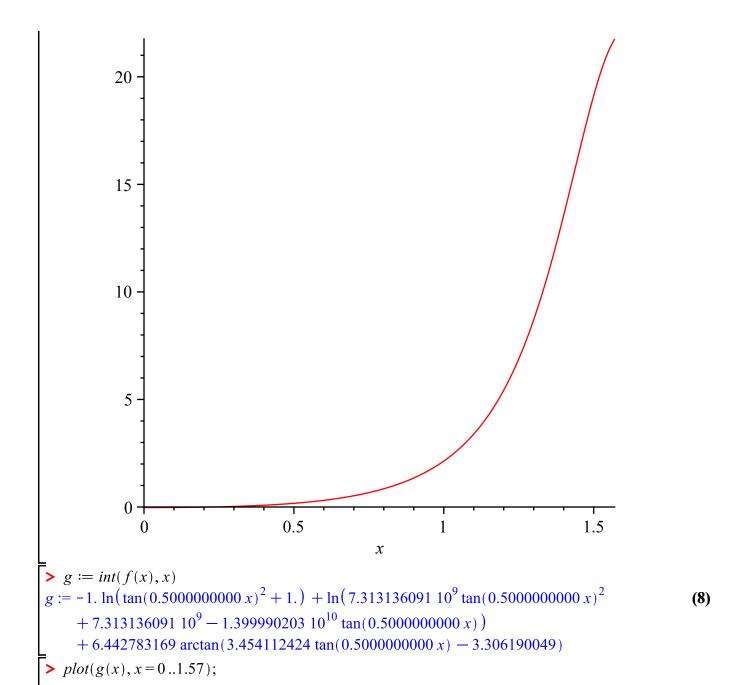
$$| \mathbf{x}| = \sin\left(\frac{1.429}{\sin(b) + \frac{(-1) \cdot 1.000293 \cos(x)}{1.429}}\right)$$

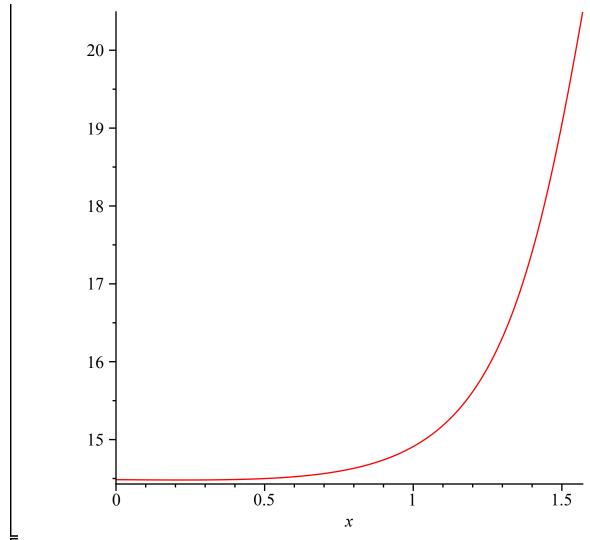
$$| \mathbf{x}| = \sin\left(\frac{1.429}{\sin(b) + \frac{(-1) \cdot 1.000293 \cos(x)}{1.429}}\right)$$

$$| \mathbf$$

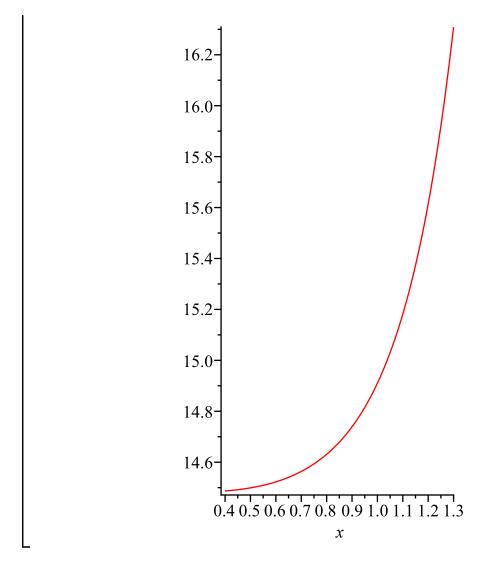
setoptions3d, spacecurve, sparsematrixplot, surfdata, textplot, textplot3d, tubeplot]

> plot(f(x), x = 0..1.57);





 $\rightarrow plot(g(x), x = 0.4..1.3)$



>
$$\arctan(f(b))$$

0.7505503634

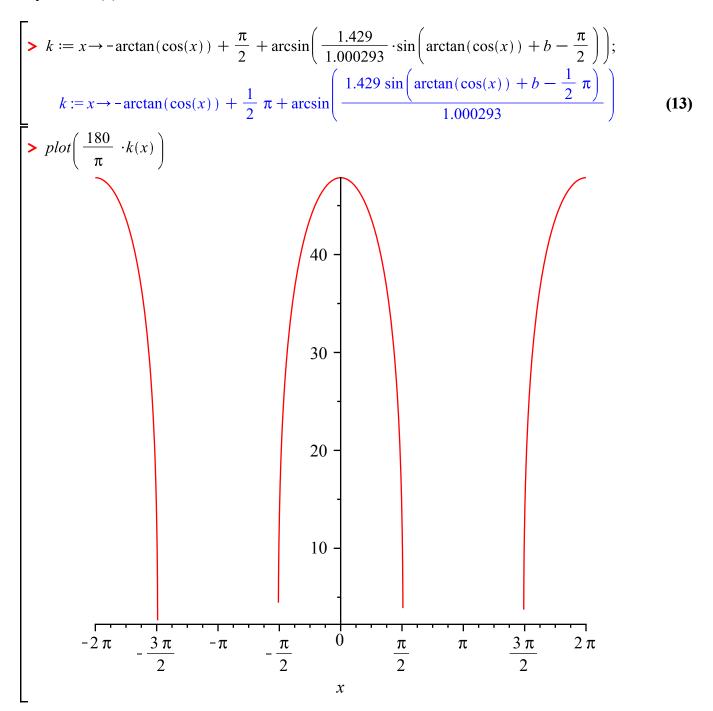
(9)

> $evalf\left(\frac{180}{\pi} \cdot \arctan(f(b))\right);$

43.00336812

(10)

Try with sin(x)



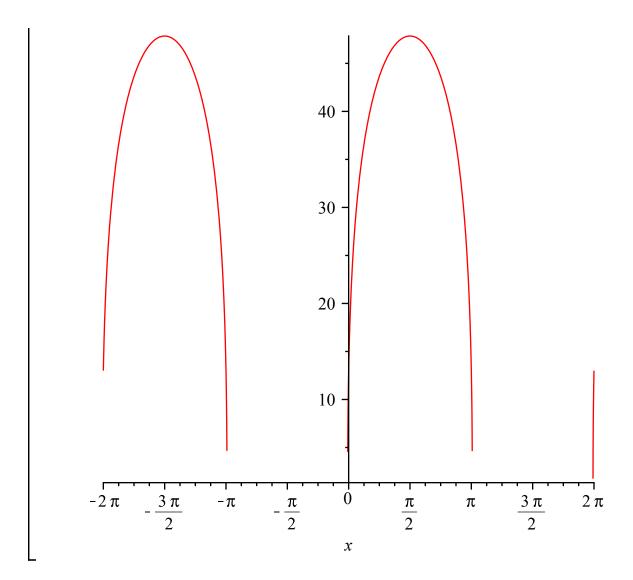
try Sin as a mold

> plot
$$\left(\left(\sin\left(x - \frac{\pi}{2}\right) + 1\right), x = 0..\pi\right)$$

1.5

0.5

 $\frac{\pi}{8}$
 $\frac{\pi}{4}$
 $\frac{3\pi}{8}$
 $\frac{\pi}{2}$
 $\frac{5\pi}{8}$
 $\frac{3\pi}{4}$
 $\frac{7\pi}{8}$
 $\frac{\pi}{8}$



Try with f(x)

Try with a semi-circle :equation is $\sqrt{r^2 - x^2} + r$ where r is the radius of curvature

$$L := x \to -\arctan\left(-\sqrt{4-x^2} + 2\right) + \frac{\pi}{2} + \arcsin\left(\frac{1.429}{1.000293} \cdot \sin\left(\arctan\left(-\sqrt{4-x^2} + 2\right) + b\right) - \frac{\pi}{2}\right);$$

$$L := x \to -\arctan\left(-\sqrt{8-x^2} + 4\right) + \frac{1}{2}\pi$$
(18)

$$+ \arcsin\left(\frac{1.429 \sin\left(\arctan\left(-\sqrt{8-x^2}+4\right)+b-\frac{1}{2}\pi\right)}{1.000293}\right)$$
> $plot\left(\frac{180}{\pi} \cdot L(x), x=0..2\right)$

$$56 - \frac{54}{53} - \frac{52}{51} - \frac{51}{50} - \frac{51}{50}$$

Try with arbitrary parameter r:

$$T := (x, r) \rightarrow -\arctan\left(-\sqrt{r^2 - x^2} + r\right) + \frac{\pi}{2} + \arcsin\left(\frac{1.429}{1.000293} \cdot \sin\left(\arctan\left(-\sqrt{r^2 - x^2} + r\right)\right) + b - \frac{\pi}{2}\right)\right);$$

$$T := (x, r) \rightarrow -\arctan\left(-\sqrt{r^2 - x^2} + r\right) + \frac{1}{2}\pi$$
(20)

$$+\arcsin\left(\frac{1.429 \sin\left(\arctan\left(-\sqrt{r^2-x^2}+r\right)+b-\frac{1}{2}\pi\right)}{1.000293}\right)$$
> $plot3d\left(\frac{180}{\pi} \cdot T(x,r), x=0..r, r=0..10\right)$

>
$$plot3d\left(\frac{180}{\pi} \cdot T(x, r), x = 0 ...r, r = 0 ...10\right)$$

