

```

> Digits := 24;
                                Digits := 24
(1)
> var0 := evalf(Pi);
                                var0 := 3.14159265358979323846264
(2)
> var1 :=  $\frac{var0}{2.0}$ ;
                                var1 := 1.57079632679489661923132
(3)
> var2 :=  $\frac{var1}{2.0}$ ;
                                var2 := 0.785398163397448309615660
(4)
> evalf(sin(var0));
                                3.38327950288419716939938 10-24
(5)
> evalf(sin(var1));
                                1.000000000000000000000000
(6)
> evalf(sin(var2));
                                0.707106781186547524400844
(7)
> evalf(cos(var0));
                                -1.000000000000000000000000
(8)
> evalf(cos(var1));
                                1.69163975144209858469969 10-24
(9)
> evalf(cos(var2));
                                0.707106781186547524400845
(10)
> evalf(tan(var0));
                                -3.38327950288419716939938 10-24
(11)
> evalf(tan(var1));
                                5.91142410284172127530836 1023
(12)
> starting_demo5 := 1.0;
                                starting_demo5 := 1.0
(13)
> evalf(tan(var1));
                                5.91142410284172127530836 1023
(14)
> starting_demo6 := 1.0;
                                starting_demo6 := 1.0
(15)
> evalf(tan(var2));
                                0.999999999999999999999999
(16)
> evalf(arctan(tan(var2)));
                                0.785398163397448309615660
(17)
> starting_demo7 := 1.0;
                                starting_demo7 := 1.0
(18)
> var0 := 0.1;
                                var0 := 0.1
(19)
> var1 := evalf(arcsin(var0));
                                var1 := 0.100167421161559796345523
(20)
> var2 := evalf(sin(var1));

```


