

```

{$APPTYPE CONSOLE}

TYPE float=extended;

VAR
angle: float;

function y(x: float): float;
begin
y:=sin(x)/x-5280/5281;
end;

procedure find_angle;
var
lo,hi,x: float;
begin
hi:=1e-10; lo:=0.04;
repeat
x:=(hi+lo)/2; if ((x=hi) or (x=lo)) then break;
if y(x)>=0 then hi:=x else lo:=x;
until false;
angle:=x;
end;

function height(a: float): float;
begin
height:= 5281/(2*a)*(1-cos(a));
end;

BEGIN

find_angle;
writeln('angle=',angle);
writeln('height=',height(angle));
readln;

END.

```