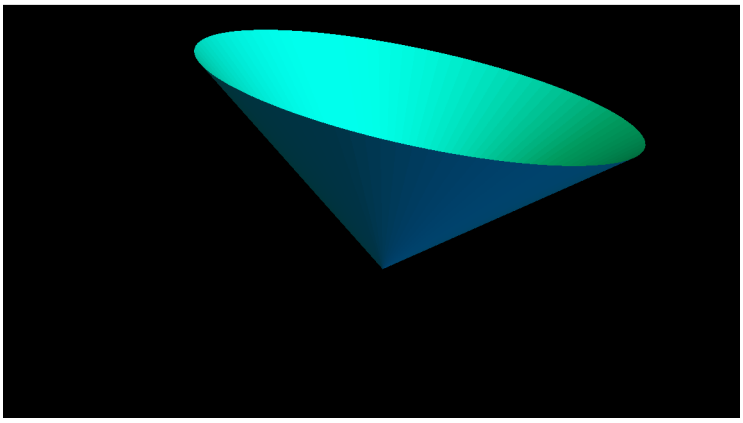
In[]:=
```
Clear["Global`*"];
h = R Cos[π/n] / Tan[φ];
Simplify[ArcCos[(R^2 Cos[2π/n] + h^2)/(R^2 + h^2)]]
```

Out[]=
$$\text{ArcCos}\left[\frac{\text{Cos}\left[\frac{2\pi}{n}\right] + \text{Cos}\left[\frac{\pi}{n}\right]^2 \text{Cot}[\varphi]^2}{1 + \text{Cos}\left[\frac{\pi}{n}\right]^2 \text{Cot}[\varphi]^2}\right]$$

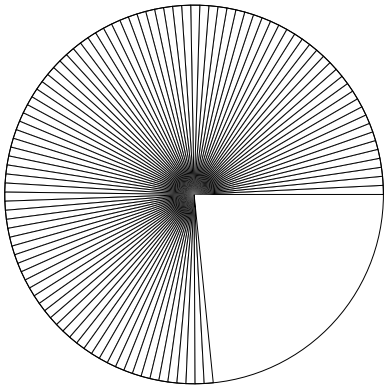
In[]:=
```
(*************************)
n = 100;
φ = 50 °;
R = 7;
(*************************)
h = R Cos[π/n] / Tan[φ];
Show[

 Table[
  Graphics3D[{
    RGBColor[0, 1, 1, 1],
    EdgeForm[],

    Polygon[{
      {R Cos[(i - 1) 2π/n], R Sin[(i - 1) 2π/n], 0},
      {R Cos[i 2π/n], R Sin[i 2π/n], 0},
      {0, 0, -h}
     }]
   }],
  {i, n}],

 Boxed → False,
 (*ViewPoint→20 {Cos[φ],Sin[φ],.3},
 SphericalRegion→Sphere[{0,0,0},1],

 PlotRange→{{,},{,},{,}},*)
 Background → Black,
 ImageSize → .2 {1920, 1080}
]
```

Out[]=



In[ ]:=
```
φmre = ArcCos[(Cos[2π/n] + Cos[π/n]^2 Cot[φ]^2)/(1 + Cos[π/n]^2 Cot[φ]^2)];

Rmre = √(R^2 + h^2);
grafikamreže = Show[

  Table[
   Graphics[{
     RGBColor[1, 1, 1, 1],
     EdgeForm[Thin],

     Polygon[{
       {Rmre Cos[(i - 1) φmre], Rmre Sin[(i - 1) φmre]},
       {Rmre Cos[i φmre], Rmre Sin[i φmre]},
       {0, 0}
      }]
    }],
   {i, n}],
  Graphics[{
    Circle[{0, 0}, Rmre],
    EdgeForm[Thin]
   }],

  Boxed → False
 ]
```

Out[ ]=



```
In[ ]:= Export[
          StringJoin[{
            "c:\\Users\\gal\\Downloads\\piramidni",
            " n", ToString[n],
            " R", ToString[R],
            " φ", ToString[Round[N[φ/°]]],
            ".svg"
           }],
          grafikamreže];
        CopyToClipboard[StringReplace[ToString[N[2 Rmre]], "." → ","]]
```