```
(*************************)
n = 10;
φ = 50 °;
R = 7;
velčrk = 215;
(*************************)
h = (R Cos[π/n])/Tan[φ];
grafika = 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}],

   Table[
    Graphics3D[{
      RGBColor[{1, 0, 0, .5}],
      EdgeForm[],

      Polygon[{
        {0, 0, -h} + RotationMatrix[i φ/50,
            {{0, 0, 1}, {0, 0, -h} + ({R, 0, h} + {R Cos[2π/n], R Sin[2π/n], h})/2}].{0, 0, 2},
        {0, 0, -h} + RotationMatrix[(i + 1) φ/50, {{0, 0, 1},
            {0, 0, -h} + ({R, 0, h} + {R Cos[2π/n], R Sin[2π/n], h})/2}].{0, 0, 2},
        {0, 0, -h}
       }]
     }],
    {i, 0, 50}],

   Table[
    Graphics3D[{

      If[i == 25,

       Text[MaTeX["\\color{red}{\\alpha}", FontSize → velčrk],
```

```
      {0, 0, -h} + .7 RotationMatrix[i φ/50,
          {{0, 0, 1}, {0, 0, -h} + ({R, 0, h} + {R Cos[2π/n], R Sin[2π/n], h})/2}].{0, 0, 2}],
     Nothing
    ],
    RGBColor[{1, 0, 0, 1}],
    EdgeForm[],

    Tube[{
      {0, 0, -h} + RotationMatrix[i φ/50,
          {{0, 0, 1}, {0, 0, -h} + ({R, 0, h} + {R Cos[2π/n], R Sin[2π/n], h})/2}].{0, 0, 2},
      {0, 0, -h} + RotationMatrix[(i + 1) φ/50, {{0, 0, 1},
          {0, 0, -h} + ({R, 0, h} + {R Cos[2π/n], R Sin[2π/n], h})/2}].{0, 0, 2}
     }, .01]
   }],
  {i, 0, 50}],

Graphics3D[{

  Text[MaTeX["\\color{siva}{h}", FontSize → velčrk], {-.5, 0, -h/2}],
  Thickness[.003],
  RGBColor[.3 {1, 1, 1} ],
  Tube[{{0, 0, -h}, {0, 0, 0}}, .03]


 }],

Graphics3D[{
  Text[MaTeX["\\color{red}{R}", FontSize → velčrk], {R/2, 0, .5}],

  RGBColor[{1, 0, 0} ],
  Tube[{{0, 0, 0}, {R, 0, 0}}, .03]

 }],

Graphics3D[{
  Dashed,
  RGBColor[{0, 0, 0} ],
  Tube[{{0, 0, -h}, {0, 0, -h} + ({R, 0, h} + {R Cos[2π/n], R Sin[2π/n], h})/2}, .01]

 }],

Boxed → False,
```

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

    PlotRange→{{,},{,},{,}},*)
    ImageSize → 6 * 1920
   ];
Export[
 "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.avionški\\grafi\\grafi\\piramidni.png"
 , %]
```

Out[•]= c:\Users\gal\Documents\ŠOLA\NAR\fiz\rn.avionški\grafi\grafi\piramidni.png

```
In[•]:= SystemOpen[
 "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.avionški\\grafi\\grafi\\piramidni.png"
 ]
```

```
In[•]:= SystemOpen[
 "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.avionški\\grafi\\grafi\\piramidni.png"
 ]
```

```
In[•]:= SystemOpen[
 "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.avionški\\grafi\\grafi\\piramidni.png"
 ]
```

```
In[•]:= α = 50 °;
velčrk = 193.5;
deb1 = .001;
deb2 = .005;
grafika = Show[
   Graphics[{
     Dashed,
     RGBColor[0, 0, 0],
     Thickness[deb1],
     Line[{{0, 0}, {0, .8}}]
    }],

   Graphics[{
     Dashed,
     RGBColor[0, 0, 0],
     Thickness[deb1],
     Line[{{-.1, .1 + .5 Cos[α]}, {.85, .1 + .5 Cos[α]}}]
    }],

   Graphics[{
     RGBColor[{.8, .8, 1}],
     Disk[{0, .1}, .1, {π/2 - α, π/2}
     ]}],

   Graphics[{


     Text[MaTeX["\\color{blue}{\\alpha}", FontSize → velčrk],
```

```
    {0, .1} + .7 * .1 * {Cos[(π - α)/2], Sin[(π - α)/2]}],
  Thickness[deb1],

  RGBColor[{0, 0, 1}],
  Circle[{0, .1}, .1, {π/2 - α, π/2}
  ]}],


Graphics[{

  RGBColor[{.8, .8, 1}],
  Disk[{0, .1} + .5 {Sin[α], Cos[α]}, .1, {π - α, π}
  ]}],


Graphics[{
  Thickness[deb1],

  Text[MaTeX["\\color{blue}{\\alpha}", FontSize → velčrk],
    {0, .1} + .5 {Sin[α], Cos[α]} + .7 * .1 * {Cos[π - α/2], Sin[π - α/2]}],


  RGBColor[{0, 0, 1}],
  Circle[{0, .1} + .5 {Sin[α], Cos[α]}, .1, {π - α, π}
  ]}],



Graphics[{

  Text[MaTeX["\\color{blue}{\\mathbf{F_{zi}}}", FontSize → velčrk],
    1/2 Total[{{0, .1} + .5 {Sin[α], Cos[α]},
       {0, .1} + .5 {Sin[α], Cos[α]} + .3 {-Cos[α], Sin[α]}}] + .04 {Sin[α], Cos[α]}],


  RGBColor[0, 0, 1],
  Thickness[deb2],
  Arrowheads[.03],
  Arrow[{{0, .1} + .5 {Sin[α], Cos[α]},
    {0, .1} + .5 {Sin[α], Cos[α]} + .3 {-Cos[α], Sin[α]}}]
 }],


Graphics[{


  Text[MaTeX["\\color{green}{m_i\\mathbf{g}}", FontSize → velčrk],
    Total[{{0, .1} + .5 {Sin[α], Cos[α]}, {0, .1} + .5 {Sin[α], Cos[α]} + .4 {0, -1}}]/2 +
    .04 {1, 0}],
```

```
      RGBColor[0, 1, 0],
      Thickness[deb2],
      Arrowheads[.03],
      Arrow[{{0, .1} + .5 {Sin[α], Cos[α]}, {0, .1} + .5 {Sin[α], Cos[α]} + .4 {0, -1}}]
     }],

    Graphics[{
      RGBColor[0, 1, 1],
      Thickness[.002],
      Line[{{0, .1}, {0, .1} + {Sin[α], Cos[α]}}]
     }],


    ImageSize → 4 * 1920


   ];
Export["c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\sile
    na piramidno letalo.png", grafika]
```

Out[●]= c:\Users\gal\Documents\ŠOLA\NAR\fiz\rn.aviončki\grafi\sile na piramidno letalo.png

```
In[●]:= SystemOpen["c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\sile
    na piramidno letalo.png"]

In[●]:= SystemOpen["c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\sile
    na piramidno letalo.png"]

In[●]:= SystemOpen["c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\sile
    na piramidno letalo.png"]

In[●]:= SystemOpen["c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\sile
    na piramidno letalo.png"]

In[●]:= SystemOpen["c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\sile
    na piramidno letalo.png"]

In[●]:= SystemOpen["c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\sile
    na piramidno letalo.png"]

"c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\sile
  na piramidno letalo.png"

In[●]:= SystemOpen[
  "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\grafi\\sile
    na piramidno letalo.png"]

In[●]:= SystemOpen[
  "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\grafi\\sile
    na piramidno letalo.png"]

In[●]:= SystemOpen[
  "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\grafi\\sile
    na piramidno letalo.png"]
```

```
In[•]:= SystemOpen[
  "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\grafi\\sile
    na piramidno letalo.png"]

In[•]:= SystemOpen[
  "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\grafi\\sile
    na piramidno letalo.png"]

In[•]:= SystemOpen[
  "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\grafi\\sile
    na piramidno letalo.png"]

In[•]:= SystemOpen[
  "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\grafi\\sile
    na piramidno letalo.png"]

In[•]:= SystemOpen[
  "c:\\Users\\gal\\Documents\\ŠOLA\\NAR\\fiz\\rn.aviončki\\grafi\\grafi\\sile
    na piramidno letalo.png"]

Out[•]= c:\Users\gal\Downloads\rn.aviončki\grafi\sile na piramidno letalo.pdf
```