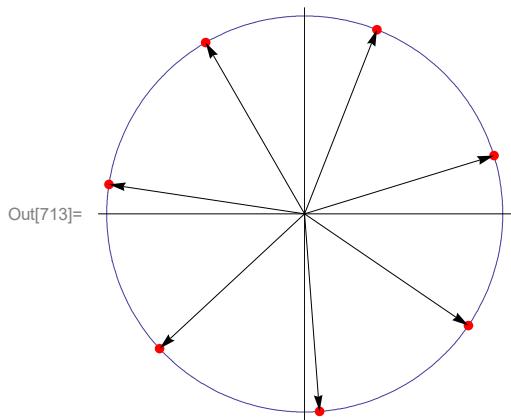


```
In[704]:= z = -1 + Sqrt[3] I;
n = 7;
{Abs[z], Arg[z]}
Table[(Arg[z] + 2 k π)/n, {k, 0, n - 1}];
juur = Prepend[%, Sqrt[Abs[z]]];
rjoon = {juur[[1]] Cos[t], juur[[1]] Sin[t]};
ring = ParametricPlot[rjoon, {t, 0, 2 π}];
punktid = Table[{PointSize[Medium], Red,
    Point[{juur[[1]] Cos[juur[[k]]], juur[[1]] Sin[juur[[k]]]}]}, {k, 2, n + 1}];
nooled = Table[Arrow[{{0, 0}, {juur[[1]] Cos[juur[[k]]], juur[[1]] Sin[juur[[k]]]}}], {k, 2, n + 1}];
Show[ring, Graphics[{punktid, nooled}], Axes → True, Ticks → None]
```

$$\text{Out}[706]= \left\{ 2, \frac{2 \pi}{3} \right\}$$

$$\text{Out}[708]= \left\{ 2^{1/7}, \frac{2 \pi}{21}, \frac{8 \pi}{21}, \frac{2 \pi}{3}, \frac{20 \pi}{21}, \frac{26 \pi}{21}, \frac{32 \pi}{21}, \frac{38 \pi}{21} \right\}$$



```
In[47]:= Table[2 k + 1, {k, 0, 5}]
```

$$\text{Out}[47]= \{1, 3, 5, 7, 9, 11\}$$

```
In[326]:= Graphics[Arrow[{{0, 0}, {2, 2}}]]
```



```

z = (3 x + 2 i) (5 - 2 i) + (4 - y i) (-3 + i) - 15 + 2 i
ComplexExpand[z]
{Simplify[Re[ComplexExpand[z]], Element[x, Reals] && Element[y, Reals]] == 0,
 Simplify[Im[ComplexExpand[z]], Element[x, Reals] && Element[y, Reals]] == 0}
Solve[%, {x, y}]
(* Leitud lahendi kontroll *)
z == 0 /. %
(* Ülesande lahendamine Mathematica uuemates versioonides *)
(* Solve[{(3x+2i)(5-2i)+(4-y i)(-3+i)-15+2i==0, {x,y}∈ Reals},{x,y}] *)

Out[659]= (-15 + 2 i) + (5 - 2 i) (2 i + 3 x) - (3 - i) (4 - i y)

Out[660]= -23 + 15 x + y + i (16 - 6 x + 3 y)

Out[661]= {-23 + 15 x + y == 0, 16 - 6 x + 3 y == 0}

Out[662]= {x → 5/3, y → -2}

Out[663]= {True}

```