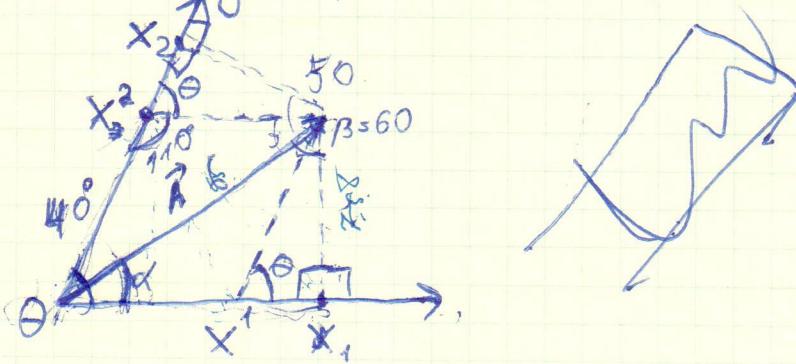


Барынгов, Зверев, Черткашин



$$\theta = 20^\circ$$

$$a^2 = b^2 + c^2 -$$

$$\alpha = 30^\circ; \beta = 60$$

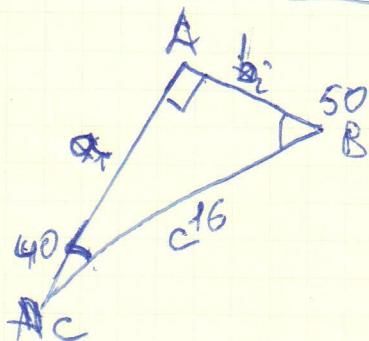
$$16^2 = 8^2 + x^2$$

$$x = 16$$

$$x^2 = 64 + \frac{256}{64} = 192$$

$$x = \sqrt{192}$$

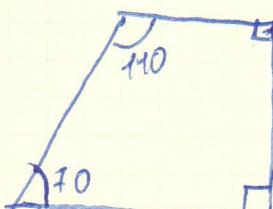
$$x_1 = 13,8; x_2 = 12,250$$



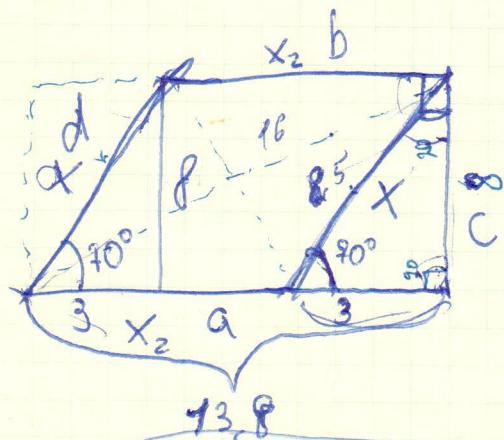
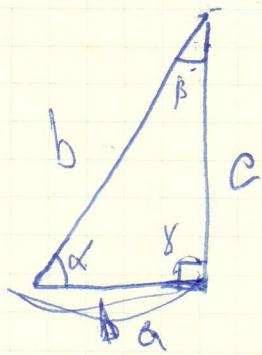
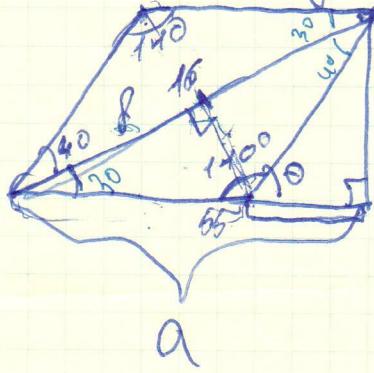
$$a = \sqrt{c^2 + b^2 + 2bc \cos(40^\circ)}$$

$$a = \sqrt{16^2 + 8^2 + 2 \cdot 16 \cdot 8 \cos(40^\circ)}$$

$$a = 16,250$$



Ванкуров, Зверев, Чирканишвили



$$a^2 = b^2 + c^2$$

$$a^2 = 9 + 864$$

$$\sqrt{a^2} = \sqrt{873}$$

$$x^1 = 10,8 ; \quad x^2 = 8,5$$

$$\overbrace{(13, 8 \cdot 10, 8) + (12, 256 \cdot 8, 5)}^{= (45, 9)}$$

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент Усманов Г. С. 6872}
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->, >=stealth'] (0,0) -- (5,0) node[below] {$Re\$};
\draw[thin,->, >=stealth'] (0,0) -- (0,6) node[left] {$Im\$};
\draw[red, thick, ->, >=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}\$};
\draw[red, thin, dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$Re(x)\$};
\draw[red, thin, dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[left] {$Im(x)\$};
\draw[blue, thin, <->] (1.5,0) arc(0:60:1.5) node[midway,right] {${\alpha=60}^\circ$};
\end{tikzpicture}

```

\begin{tikzpicture}[scale=0.6] \newcommand{\feta}{100} \newcommand{\alpha}{30}

```

\newcommand{\D}{\{ \begin{array}{c} \text{arc}(0;30;5) \\ \text{arc}(0;30;5) \end{array} \}}
\draw [thin,->] (0,0) node [below] {A}
\draw [thin,->] (0,6) node [left] {B}
\draw [thin,->] (0,6) arc(0:100:5) node [left] {C}
\draw [thin,->] (0,6) arc(0:90:5) node [below] {D}
\draw [thin,->] (5,0) arc(0:90:2) node [left] {E}

```

```
\end{document}
```

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент Логачев П.Ю №6842}
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->, >=stealth'] (0,0) -- (5,0) node[below] {$Re$};
\draw[thin,->, >=stealth'] (0,0) -- (0,6) node[left] {$Im$};
\draw[red, thick, ->, >=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw[red, thin, dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$Re(x)$};
\draw[red, thin, dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[left] {$Im(x)$};
\draw[blue, thin, <->] (1.5,0) arc(0:60:1.5) node[midway, right] {$\alpha=60^\circ$};
\end{tikzpicture} над. view. ? где ом? нагрузка
\newcommand{\ugol}{\theta} \newcommand{\ugol1}{30^\circ} \newcommand{\ugol2}{60^\circ} \newcommand{\ugol3}{30^\circ}
\draw[thin, ->, >=stealth'] (0,0) -- (1,0) node[below] {$Re$};
\draw[thin, ->, >=stealth'] (0,0) -- (-\ugol1, \ugol2) node[left] {$Im$};
\draw[thin, ->, >=stealth'] (0,0) -- (\ugol1, \ugol3) node[right] {$\vec{z}$};
\draw[thin, dashed] (\ugol1, \ugol3) -- (0, \ugol3) node[below] {$x_1$};
\draw[thin, dashed] (-\ugol1, \ugol2) -- (0, \ugol2) node[below] {$x_2$};
\end{document}

```

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент Бенюк А.А. № 6872}
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->,stealth'] (0,0) -- (5,0) node[below] {$Re$};
\draw[thin,->,stealth'] (0,0) -- (0,6) node[left] {$Im$};
\draw[red,thick,->,stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$Re(x)$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[left] {$Im(x)$};
\draw[blue,thin,<->] (1.5,0) arc(0:60:1.5) node[midway,right] {$\alpha=60^\circ$};
\end{tikzpicture}
\newcommand{\alfa}{30}
\newcommand{\teta}{95}
\newcommand{\D}{5}
\draw[thin,->] (5,0) arc(0:30:5) node[right] {$\alpha$};
\draw[thin,->] (5,0) arc(0:95:5) node[left] {$\teta$};
\draw[thin,dashed] (5,5) arc(0:90:5) node[below] {$x_1$};
\draw[thick,dotted] (5,5) arc(0:270:5) node[below] {$x_2$};
\draw[thin,dashed] (5,5) arc(0:180:5) node[left] {$x_{-1}$};
\draw[thin,dotted] (5,5) arc(0:375:5) node[left] {$x_{-2}$};
\end{tikzpicture}
\end{document}

```

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент ДЕМЕНТЬЕВ В. ГР. 6872}
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->,>=stealth'] (0,0) -- (5,0) node[below] {$Re$};
\draw[thin,->,>=stealth'] (0,0) -- (0,6) node[left] {$Im$};
\draw[red,thick,->,>=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$Re(x)$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[left] {$Im(x)$};
\draw[blue,thin,<->] (1.5,0) arc(0:60:1.5) node[midway,right] {$\alpha=60^\circ$};
\end{tikzpicture}

```

\maketitle

```

\begin{tikzpicture} [scale=0.6]
\newcommand{\theta}{75}
\newcommand{\alFa}{30}
\newcommand{\D}{5}
\draw[thin,->,>=stealth'] (0,0) -- (5,0) node[below] {$Re$};
\draw[thin,->,>=stealth'] (0,0) -- (0,6) node[left] {$Im$};
\draw[red,thick,->,>=stealth'] (0,0) -- ({\D*cos(\alFa)}, {\D*sin(\alFa)}) node[right] {};

```

\end{document}

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент Верстакова Н.Н. 6872}
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->, >=stealth'] (0,0) -- (5,0) node[below] {$\Re$};
\draw[thin,->, >=stealth'] (0,0) -- (0,6) node[left] {$\Im$};
\draw[red, thick, ->, >=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw[red, thin, dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$\Re(x)$};
\draw[red, thin, dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[left] {$\Im(x)$};
\draw[blue, thin, <->] (1.5,0) arc(0:60:1.5) node[midway, right] {$\alpha=60^\circ$};
\end{tikzpicture}

```

\begin{document}  
 \maketitle  
 \begin{tikzpicture}[scale=0.6]  
 \newcommand{\alfa}{30}  
 \newcommand{\D}{10}  
 \draw[thin,->, >=stealth'] (0,0) -- (10,0) node[below] {\$\Re\$};  
~~\draw[red, thin, dashed]~~  
 \draw[thin,->, >=stealth'] (0,0) -- (0,

```
\end{document}
```

Музыкаль. У. С.

6871.

```
\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент}
% Конец преамбулы
\begin{document} написано.
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->,>=stealth'] (0,0) -- (5,0) node[below] {$Re$};
\draw[thin,->,>=stealth'] (0,0) -- (0,6) node[left] {$Im$};
\draw[red,thick,->,>=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0)
node[below] {$Re(x)$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)})
node[left] {$Im(x)$};
\draw[blue,thin,<->] (1.5,0) arc(0:60:1.5) node[midway,right] {$\alpha=60^\circ$};
\end{tikzpicture}
```

```
\begin{document}
\maketitle
\begin{tikzpicture} [scale=1.6]
\newcommand{\alfa}{30}
\newcommand{\D}{8}
\newcommand{\beta}{85}
\draw [thin, ->, >=stealth'] (0,0) -- (7,0) node[below] {$Re$};
\draw [thin, ->, >=stealth'] (0,0) -- (0,8) node[left] {$Im$};
\draw [red, thick, ->, >=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw [black, thin, dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$Re(x)$};
\draw [black, thin, dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[left] {$Im(x)$};
\draw [red, thin, <->] (\D,0) arc(0:\beta:\D) node[midway,right] {$\alpha=60^\circ$};
\end{tikzpicture}
```

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент Синяков М.А. 6872}
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->,>=stealth'] (0,0) -- (5,0) node[below] {$Re$};
\draw[thin,->,>=stealth'] (0,0) -- (0,6) node[left] {$Im$};
\draw[red,thick,->,>=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$Re(x)$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[left] {$Im(x)$};
\draw[blue,thin,<->] (1.5,0) arc(0:60:1.5) node[midway,right] {$\alpha=60^\circ$};
\end{tikzpicture}

\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.5]
\newcommand{\alfa}{50}
\newcommand{\D}{7.5}
\draw[thin,->,>=stealth'] (0,0) -- (15,0) node[below] {$Re$};
\draw[thin,->,>=stealth'] (0,0) -- (0,20) node[left] {$Im$};
\draw[red,thick,->,>=stealth'] (0,0) -- ({\D*sin(\alfa)}, {\D*cos(\alfa)}) node[right] {$\vec{x}$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$Re(x)$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[below] {$Im(x)$};
\draw[blue,thin,<->] (3,0) arc(0:50:3) node[midway,right] {$\alpha=50^\circ$};
\draw[thin,dashed,

```

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент Крюкова А.Р. 204872
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->,stealth'] (0,0) -- (5,0) node[below] {$\text{Re}$};
\draw[thin,->,stealth'] (0,0) -- (0,6) node[left] {$\text{Im}$};
\draw[red,thick,->,stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0)
node[below] {$\text{Re}(x)$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)})
node[left] {$\text{Im}(x)$};
\draw[blue,thin,<->] (1.5,0) arc(0:60:1.5) node[midway,right] {$\alpha=60^\circ$};
\end{tikzpicture}
\end{document}

```

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент 9а курса Т. В. 6872}
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->,>=stealth'] (0,0) -- (5,0) node[below] {$Re$};
\draw[thin,->,>=stealth'] (0,0) -- (0,6) node[left] {$Im$};
\draw[red,thick,->,>=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$Re(x)$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[left] {$Im(x)$};
\draw[blue,thin,<->] (1.5,0) arc(0:60:1.5) node[midway,right] {$\alpha=60^\circ$};
\end{tikzpicture}

```

\maketitle

```

\begin{tikzpicture} [Scale = 0.6]
\newcommand{\theta}{105}
\newcommand{\alfa}{30}
\newcommand{\D}{5}
\draw[thin,->,>=stealth'] (0,0) -- (5,0) node[below] {$Re$};
\draw[thin,->,>=stealth'] (0,0) -- (0,6) node[left] {$Im$};
\draw[red,thick,->,>=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {};
\end{tikzpicture}

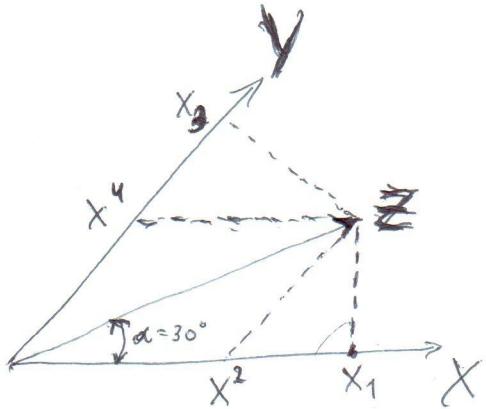
```

\end{document}

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент Магорюх В. 6872}
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->,>=stealth'] (0,0) -- (5,0) node[below] {$\Re$};
\draw[thin,->,>=stealth'] (0,0) -- (0,6) node[left] {$\Im$};
\draw[red,thick,->,>=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$\Re(x)$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[left] {$\Im(x)$};
\draw[blue,thin,<->] (1.5,0) arc(0:60:1.5) node[midway,right] {$\alpha=60^\circ$};
\end{tikzpicture}

```



\newcommand{\alfa}{30}

\newcommand{\D}{5}

\draw[thin,->,>=stealth'] (0,0) -- (8,0) node[below] {x}

\draw[thin,->,>=stealth'] (0,0) -- (6,0) node[below] {x<sup>2</sup>}

\draw[thin,->,>=stealth'] (0,0) -- (0,8) node[left] {y}

\draw[thin,->,>=stealth'] (0,0) -- (0,-) node[left] {x<sup>3</sup>}

\draw[red,thick,->,>=stealth'] (0,0) -- (\cos 30^\circ) node[right] {vec}

\draw[red,thin,->,>=stealth'] (0,0) -- (0,0) node[below] {x<sup>2</sup>}

\draw[red,thin,dashed] (0,0) -- (0,0) node[below] {x<sup>3</sup>}

\draw[blue,thin,<->] (1.5,0) arc(0:60:1.5) node[midway,left] {x<sup>4</sup>}

end {}

\end{document}

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент Стартылев Р.Б. 216872 }
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->,>=stealth'] (0,0) -- (5,0) node[below] {$Re$};
\draw[thin,->,>=stealth'] (0,0) -- (0,6) node[left] {$Im$};
\draw[red,thick,->,>=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right]
{$\vec{x}$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0)
node[below] {$Re(x)$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)})
node[left] {$Im(x)$};
\draw[blue,thin,<->] (1.5,0) arc(0:60:1.5) node[midway,right] {$\alpha=60^\circ$};
\end{tikzpicture}
\new command \theta \{30\}
\new command \alfa \{60\}
\new command \D \{5\}
\draw [thin,<-->][stealth'] (0,0) -- (8,0) node[below] {x}
\draw [left]
\end{document}

```

```

\documentclass[a4paper,11pt]{article}
\usepackage[T2A]{fontenc}
\usepackage[utf8]{inputenc}
\usepackage[english, russian]{babel}
\usepackage{tikz}
\usepackage[european,cuteinductors,smartlabels]{circuitikz}
\title{Практическая работа №2}
\author{студент Сурик ТОА 68722р}
% Конец преамбулы
\begin{document}
\maketitle
\begin{tikzpicture}[scale=0.6]
\newcommand{\alfa}{60}
\newcommand{\D}{5}
\draw[thin,->,>=stealth'] (0,0) -- (5,0) node[below] {$Re$};
\draw[thin,->,>=stealth'] (0,0) -- (0,6) node[left] {$Im$};
\draw[red,thick,->,>=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[right] {$\vec{x}$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- ({\D*cos(\alfa)}, 0) node[below] {$Re(x)$};
\draw[red,thin,dashed] ({\D*cos(\alfa)}, {\D*sin(\alfa)}) -- (0, {\D*sin(\alfa)}) node[left] {$Im(x)$};
\draw[blue,thin,<->] (1.5,0) arc(0:60:1.5) node[midway,right] {$\alpha=60^\circ$};
\end{tikzpicture}
\newcommand{\alfa}{60}
\newcommand{\thet}{30}
\newcommand{\D}{9}
\draw[thin,->,>=stealth'] (0,0) -- ({\D*cos(\alfa)}, {\D*sin(\alfa)}) node[below] {$Re$};
\node[Left] {$Im$};
\draw[thin,->,>=stealth'] (0,0) -- (0, {\D*sin(\thet)}) node[above] {$Re$};
\draw[thin,->,>=stealth'] (0,0) -- ({\D*cos(\thet)}, {\D*sin(\thet)}) node[above] {$\vec{x}$};
\draw[red,thin,->,>=stealth'] (0,0) -- ({\D*cos(\thet)}, {\D*sin(\thet)}) node[below] {$Re(x)$};
\draw[red,thin,dashed] ({\D*cos(\thet)}, {\D*sin(\thet)}) -- ({\D*cos(\thet)}, 0) node[below] {$Re(x-1)$};
\draw[red,thin,dashed] ({\D*cos(\thet)}, {\D*sin(\thet)}) -- (0, {\D*sin(\thet)}) node[above] {$Im(x-1)$};
\end{document}

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