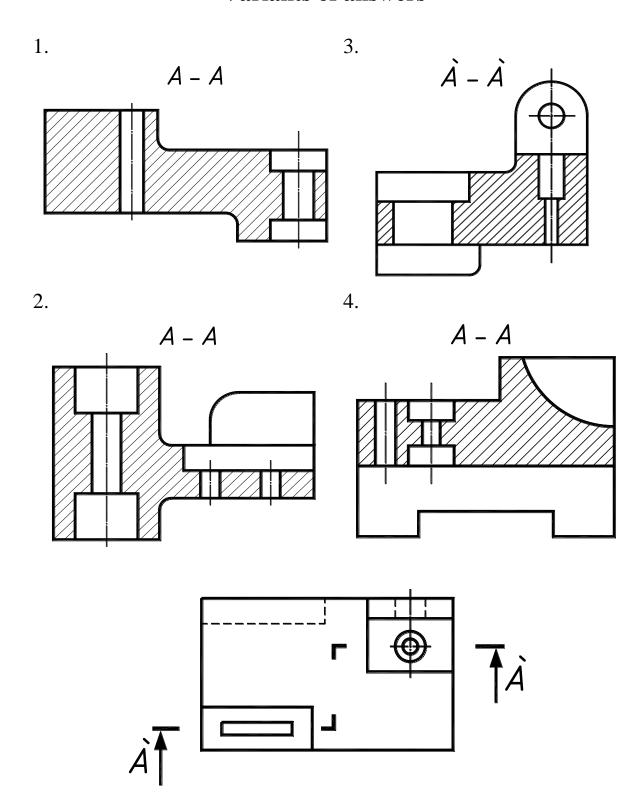
S.P. Burkova, G.F. Vinokurova, R.G. Dolotova

## DESCRIPTIVE GEOMETRY AND ENGINEERING GRAPHICS

Bank of supervising materials of entrance, examination and total control

# Task of entrance control

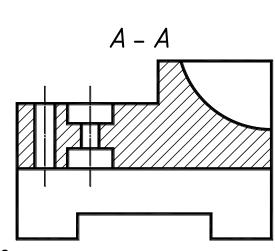
# Variant №1 To specify the correct representational of section A-A Variants of answers

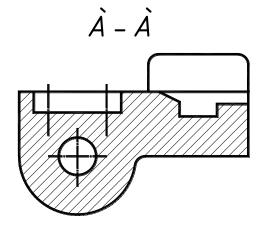


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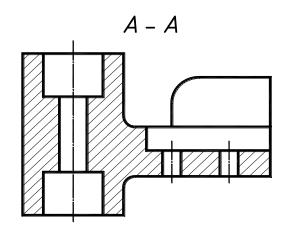
Variants of answers

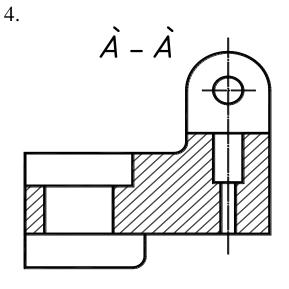
1. 3.

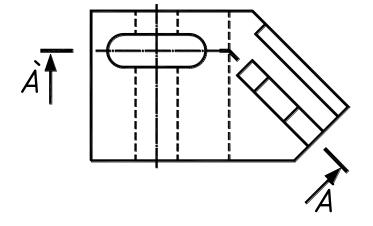




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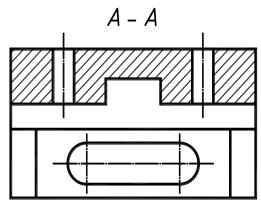


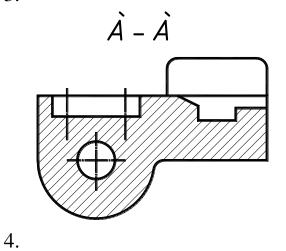




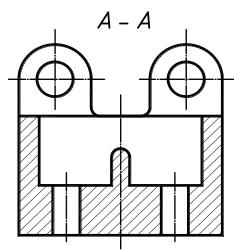
# Variant №3 To specify the correct representational of section A-A Variants of answers

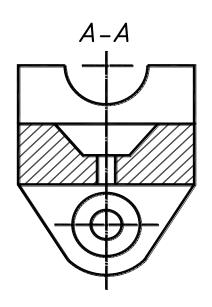
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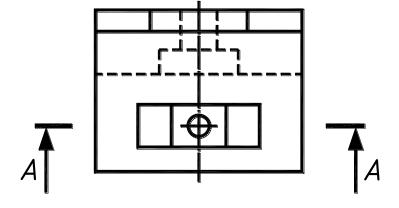




2.





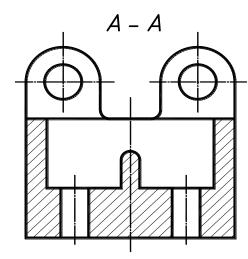


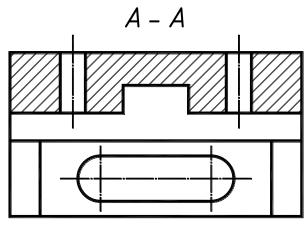
# Variant №4 To specify the correct representational of section A-A Variants of answers

Variants of answers 1. 3. À-À A - A2. 4. A - AA - A

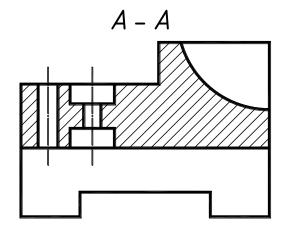
# Variant №5 To specify the correct representational of section A-A Variants of answers

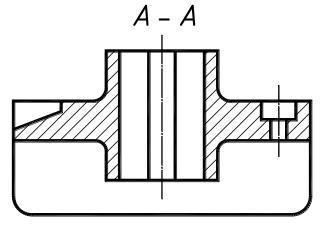
1. 3.

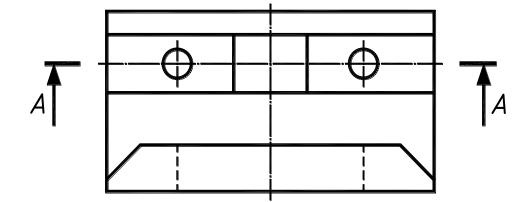




2. 4.

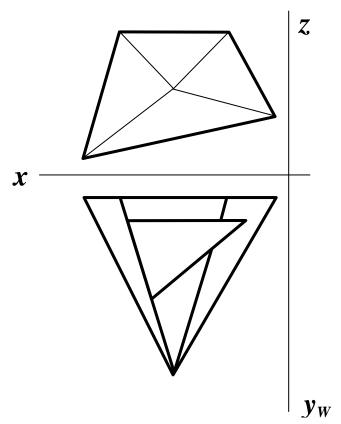




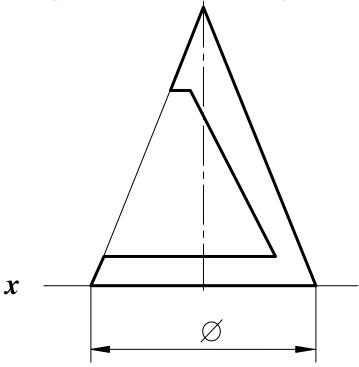


## Task of examination № 1

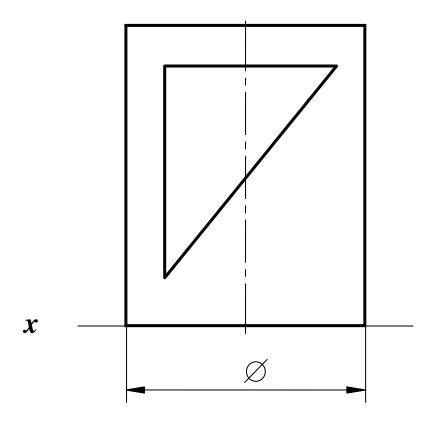
1. Construct three projections of a pyramid with an aperture.



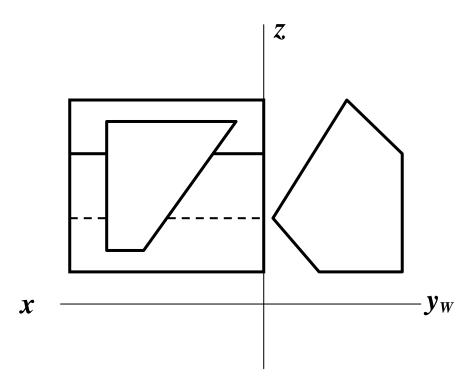
2. Construct three projections of a cone with an aperture



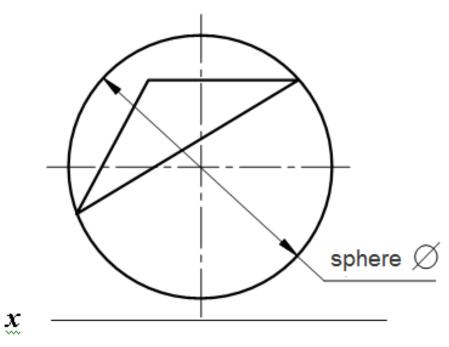
1. Construct three projections of a cylinder with an aperture.



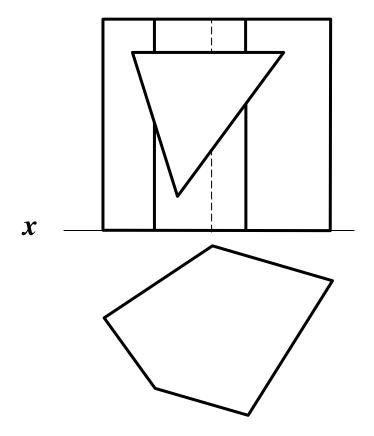
2. Construct three projections of a prism with an aperture.



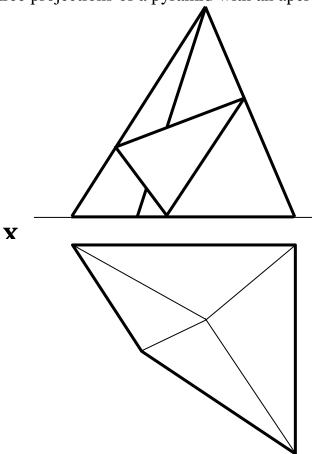
1. Construct three projections of a sphere with an aperture.



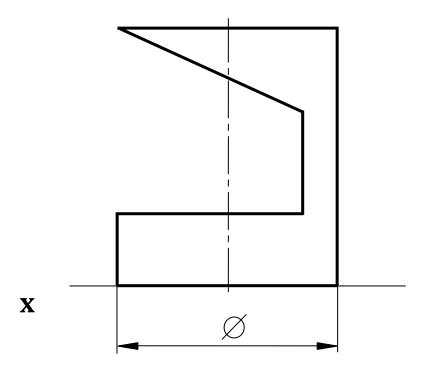
2. Construct three projections of a prism with an aperture.



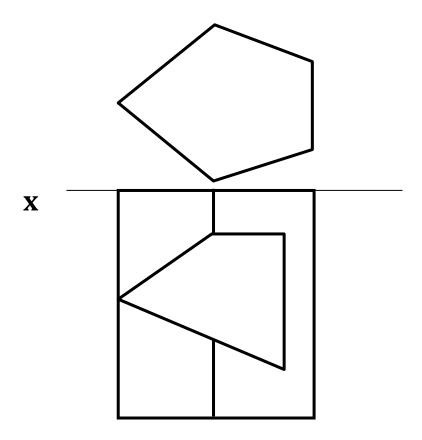
1. Construct three projections of a pyramid with an aperture.



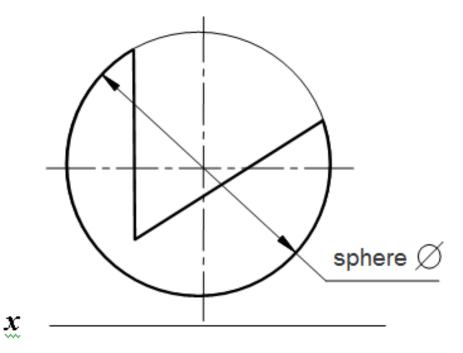
2. Construct three projections of a cylinder with an aperture.



1. Construct three projections of a prism with an aperture.

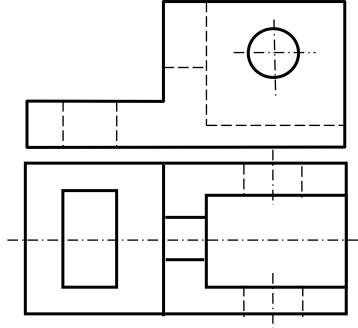


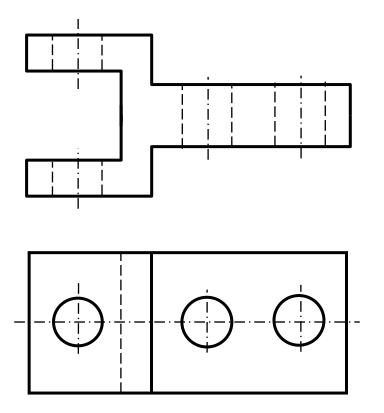
2. Construct three projections of a prism with an aperture.



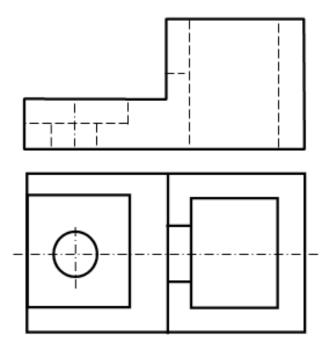
## Task of examination № 2

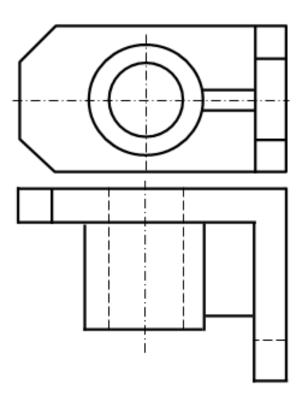
1. Below two given representational, construct three representational of a detail. Execute necessary sections. Put the sizes.



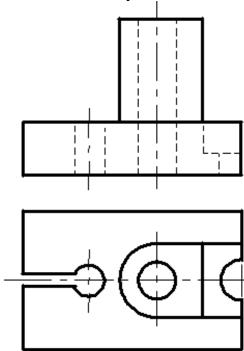


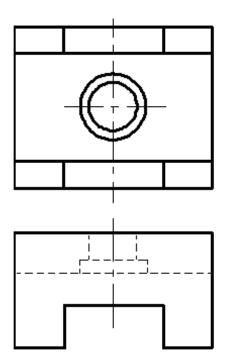
1. Below two given representational, construct three representational of a detail. Execute necessary sections. Put the sizes.



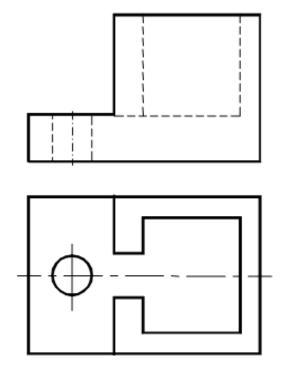


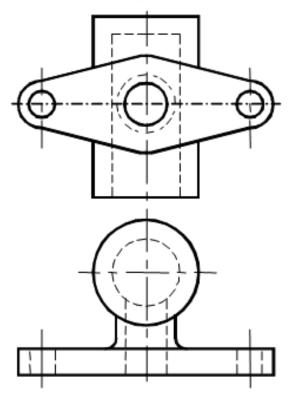
1. Below two given representational, construct three representational of a detail. Execute necessary sections. Put the sizes.



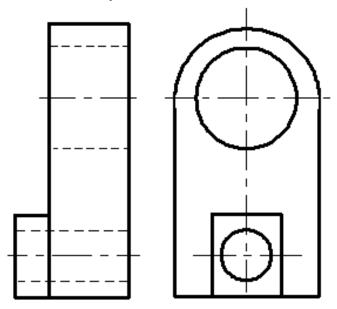


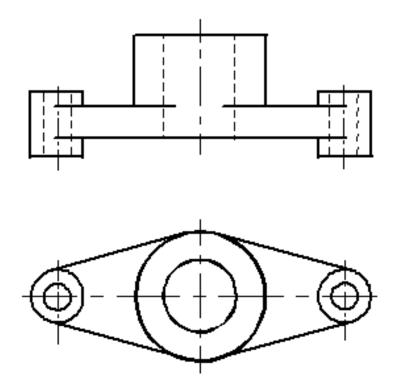
1. Below two given representational, construct three representational of a detail. Execute necessary sections. Put the sizes.





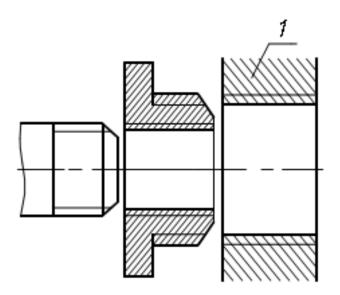
1. Below two given representational, construct three representational of a detail. Execute necessary sections. Put the sizes.





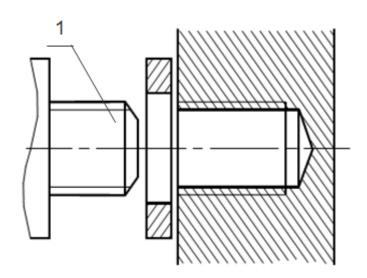
## Task of examination № 3

Draw details in assembly, on a detail I designate a groove trumpet  $1\frac{1}{4}$ ".

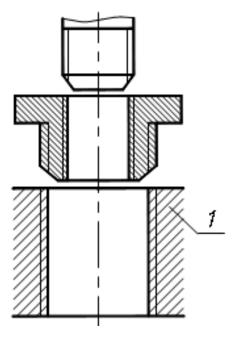


Variant №2

Draw details in assembly, on a detail *1* designate a groove trumpet 1".

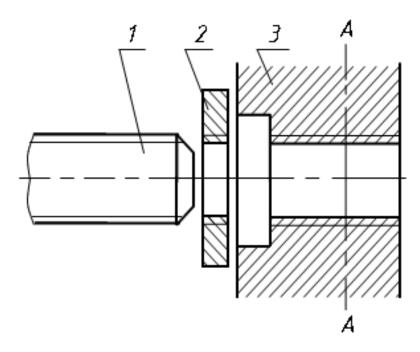


Draw details in assembly, on a detail 1 designate a groove trumpet  $\frac{1}{4}$ ".

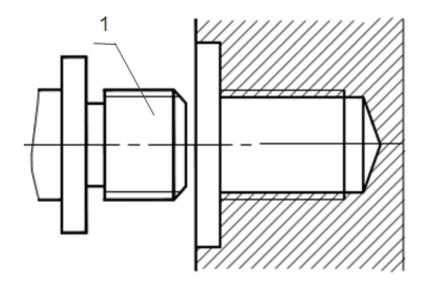


Variant №4

Draw details in assembly, on a detail 1 designate a groove trumpet  $1\frac{1}{4}$ ".

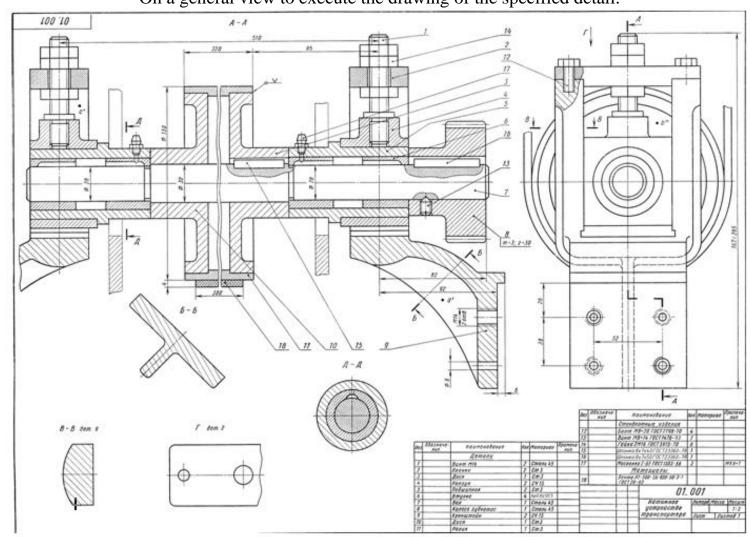


Draw details in assembly, on a detail 1 designate a groove trumpet 1".

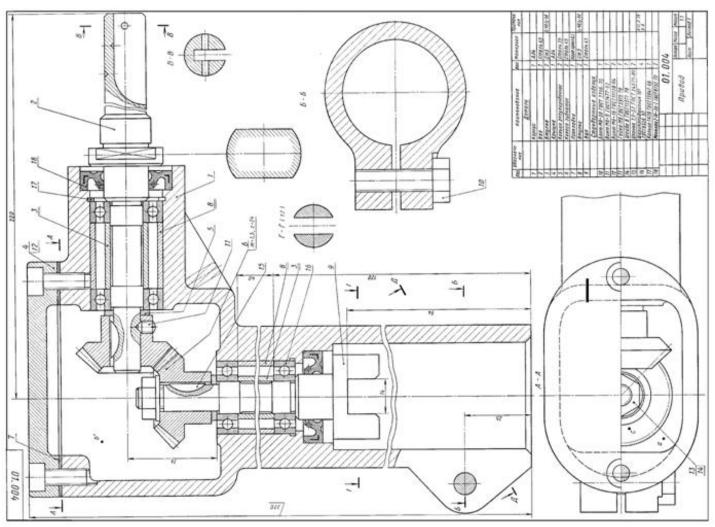


## Task of examination № 4

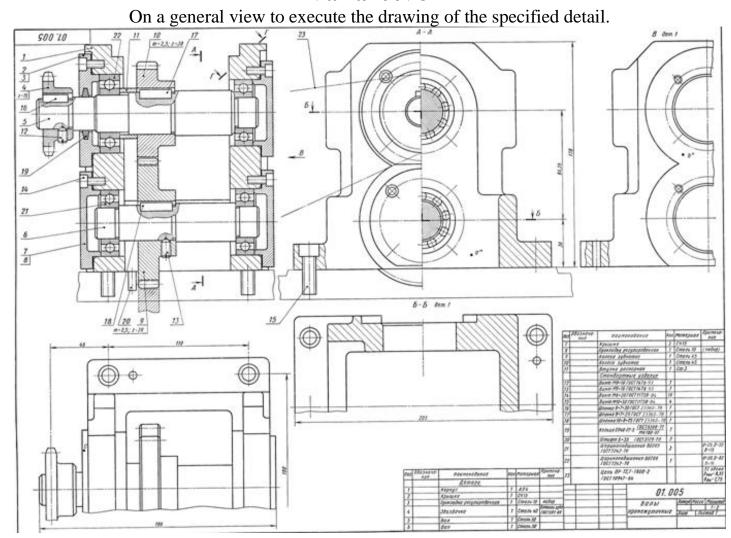
Variant №1
On a general view to execute the drawing of the specified detail.



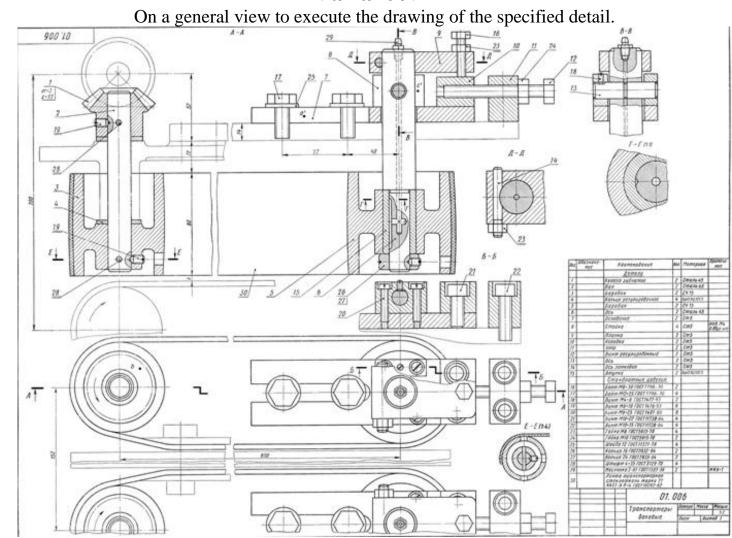
Variant №2
On a general view to execute the drawing of the specified detail.



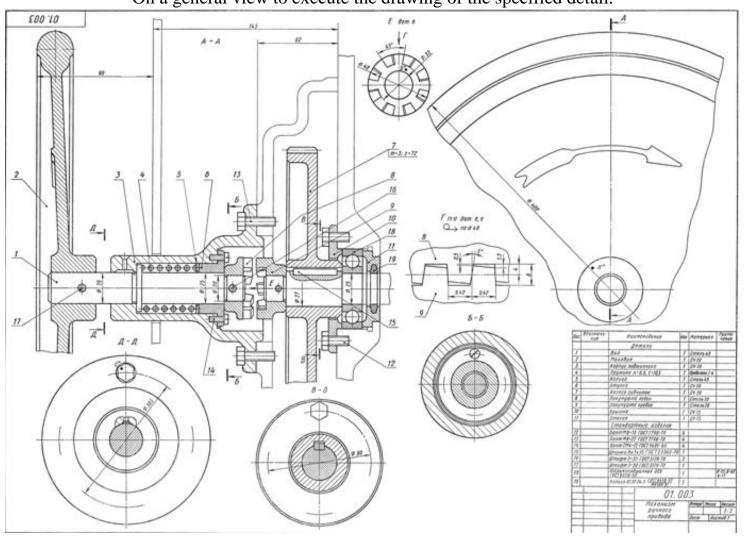
Variant №3



Variant №4



 $\begin{tabular}{ll} \begin{tabular}{ll} Variant $\mathcal{N}_{2}5$ \\ On a general view to execute the drawing of the specified detail. \\ \end{tabular}$ 





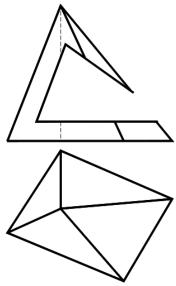
**DISCIPLINE**: Descriptive geometry and engineering graphics

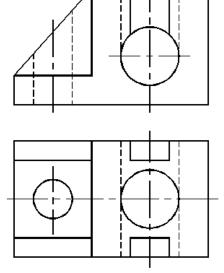
STUDY MAJOR: 150700 Mechanical Engineering;

230100 Computer Science;140400 Electrical Engineering

#### Semester 1

1. Construct three views of a pyramid with a pyramid notch (15 points)





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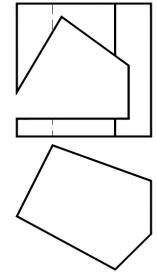
**DISCIPLINE**: Descriptive geometry and engineering graphics

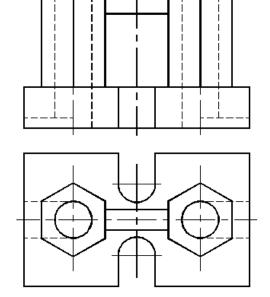
**STUDY MAJOR:** 150700 Mechanical Engineering;

230100 Computer Science;140400 Electrical Engineering

#### Semester 1

1. Construct three views of a pyramid with a prism notch (15 points)





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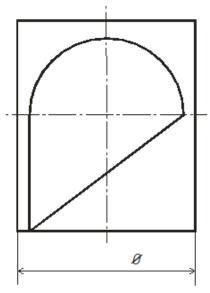
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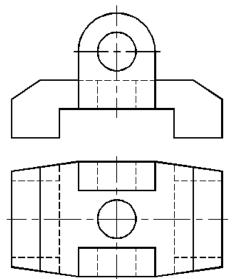
**STUDY MAJOR:** 150700 Mechanical Engineering;

230100 Computer Science;140400 Electrical Engineering

#### Semester 1

1. Construct three views of a pyramid with a prism notch (15 points)





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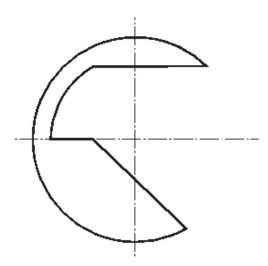
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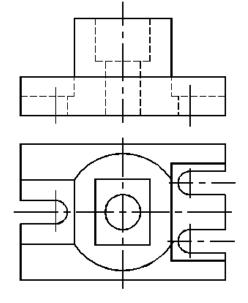
**STUDY MAJOR:** 150700 Mechanical Engineering;

230100 Computer Science;140400 Electrical Engineering

#### Semester 1

1. Construct three views of a pyramid with a prism notch (15 points)





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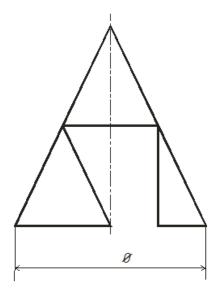
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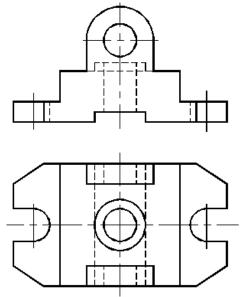
**STUDY MAJOR:** 150700 Mechanical Engineering;

230100 Computer Science;140400 Electrical Engineering

#### Semester 1

1. Construct three views of a pyramid with a prism notch (15 points)





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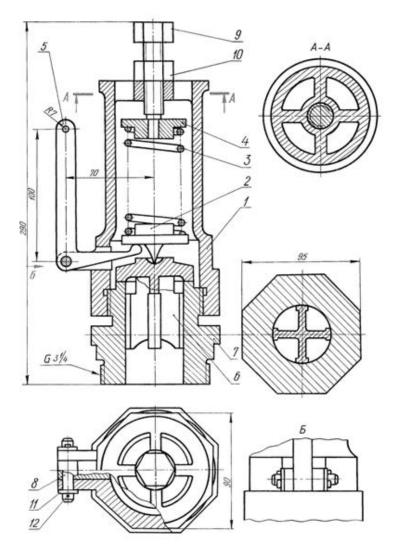


**DISCIPLINE**: Descriptive geometry and engineering graphics

**STUDY MAJOR:** 150700 Mechanical Engineering;

230100 Computer Science;140400 Electrical Engineering

- 1. What are the principal views? How are they positioned on a drawing? What are the rules of designating a view having no projecting link with the principal view? (5 points)
- 2. What is thread? What are the characteristic parameters of thread? What is referred to as the thread profile? (5 points)
- 3. Construct a working drawing of a detail the 1. (30 points)



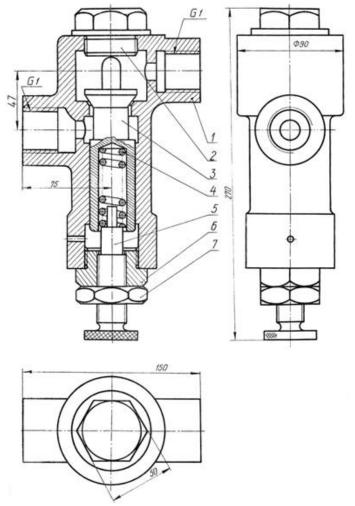
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Heard of department	/G.V.Kashkan/
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**DISCIPLINE**: Descriptive geometry and engineering graphics

STUDY MAJOR: 150700 Mechanical Engineering;

230100 Computer Science;140400 Electrical Engineering

- 1. What representation is called an auxiliary view, a detail view? In what cases are they applied and how are they denoted? When is it permitted to apply a break of a representation? (5 points)
- 2. What is pitch, lead of thread? How are they related? What is the basic difference between the metric and pipe threads, between trapezoidal and buttress threads? (5 points)
- 3. Construct a working drawing of a detail the 1. (30 points)



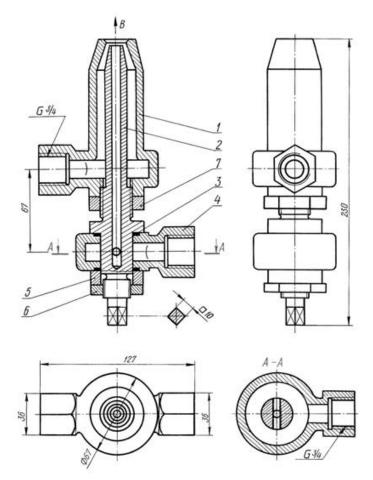
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**DISCIPLINE**: Descriptive geometry and engineering graphics

**STUDY MAJOR:** 150700 Mechanical Engineering;

230100 Computer Science;140400 Electrical Engineering

- 1. What representation is called a sectional view? How are the sectional views classified depending on a cutting plane position relative to the horizontal projection plane or relative to the object; depending on a number of the cutting planes? (5 points)
- 2. How is thread representation on the shank and in the hole on the elevations obtained by projecting onto the planes, parallel and perpendicular to the axis of shank and hole? How is thread drawn in joints? (5 points)
- 3. Construct a working drawing of a detail the 1. (30 points)



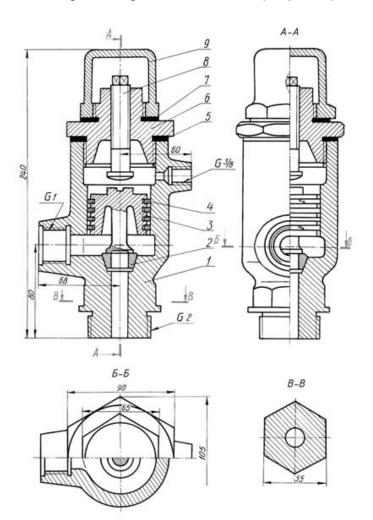
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Lecturer		/R.G.Dolotova
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« »	2013 г.	

**DISCIPLINE:** Descriptive geometry and engineering graphics

**STUDY MAJOR:** 150700 Mechanical Engineering;

230100 Computer Science;140400 Electrical Engineering

- 1. What sectional view is referred to as a scrap one? In what cases are the sectional views not designated? What letters denote the sectional views? How are the complex sections classified? (5 points)
- 2. In what cases and in what way is the thread profile drawn? What data (in what sequence) are printed in standard threads' designations in the general case? (5 points)
- 3. Construct a working drawing of a detail the 1. (30 points)



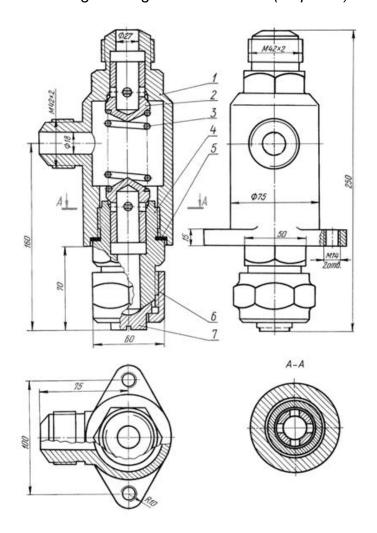
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« » 2013 г	

**DISCIPLINE:** Descriptive geometry and engineering graphics

STUDY MAJOR: 150700 Mechanical Engineering;

230100 Computer Science;140400 Electrical Engineering

- 1. What simplifications are used when the projections of the intersection lines of surfaces are drawn? Are the small angles of taper and slopes shown in all drawings? How is knurling drawn? (5 points)
- 2. What is "right-hand" ("left-hand") thread? How are these terms shown in thread designation? What is the difference between designations of threads with coarse and fine pitch? (5 points)
- 3. Construct a working drawing of a detail the 1. (30 points)



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Heard of department		/G.V. Kashkan/
« »	<u> 2013 г.</u>	