

ТЕМА 3 СЛОЖНЫЕ РАЗРЕЗЫ

Цель работы:

Изучение и практическое применение правил изображения предметов с использованием сложных разрезов в соответствии с ГОСТ 2.305–68.

Номер варианта задания соответствует двум последним цифрам номера зачетной книжки.

Методические указания по выполнению:

Сложным разрезом называется разрез, выполненный двумя и более плоскостями. Разрез, выполненный двумя и более параллельными плоскостями, называется **ступенчатым** (рис. 22). Разрез, выполненный двумя и более плоскостями, пересекаются под углом отличным от 90° , называется **ломаным разрезом** (рис. 23)

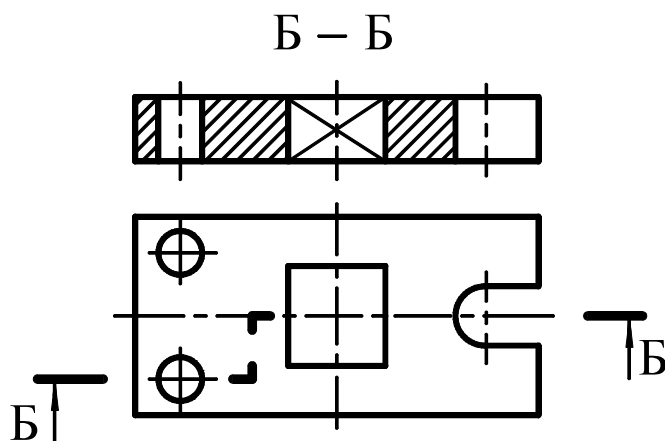


Рис. 22

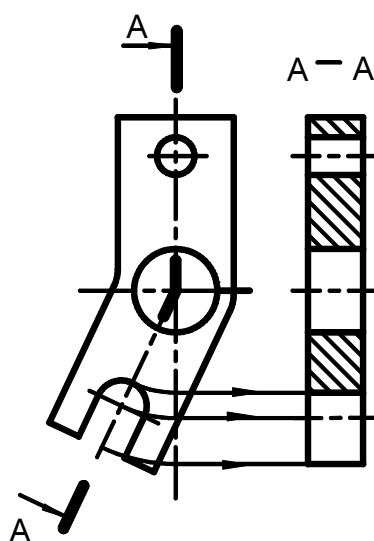


Рис. 23

Содержание и оформление:

1. Перечертить заданные виды деталей, увеличив размеры в два раза.
2. Достроить третий вид.
3. Построить ступенчатый разрез, совместив его с одним из основных видов.
4. Проставить размеры на форму элементов детали, их взаимное положение и габаритные размеры.

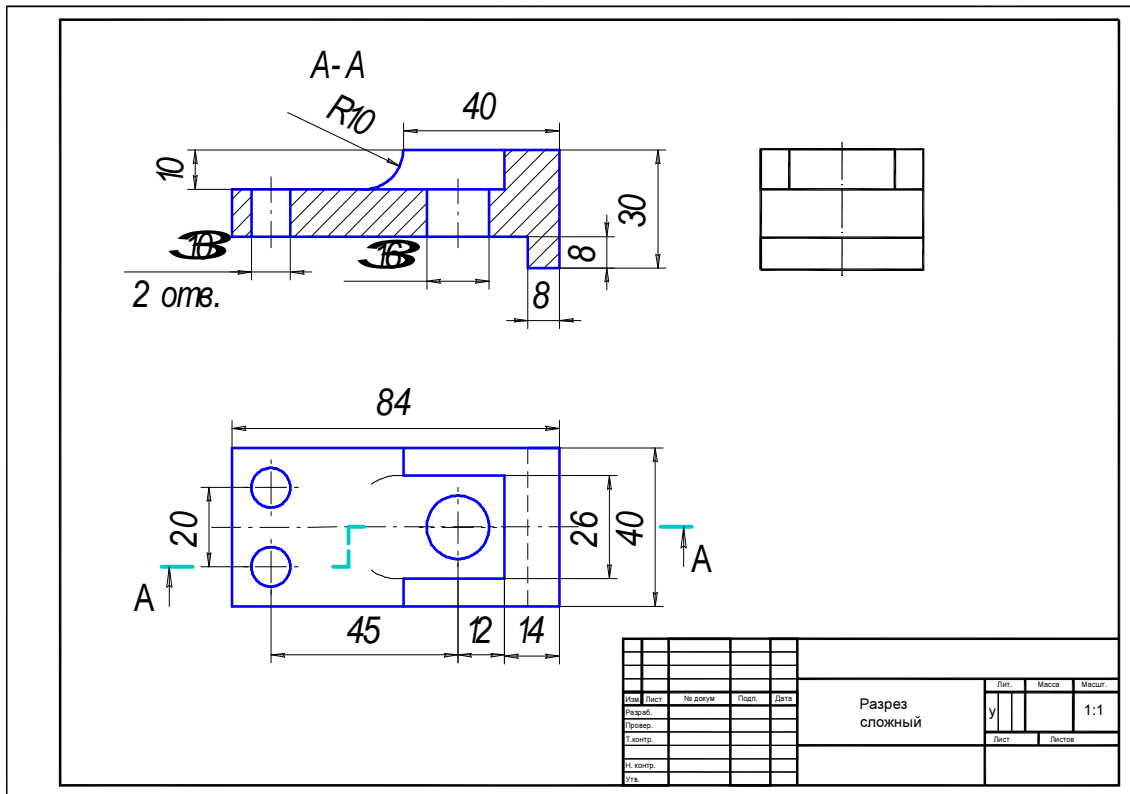


Рис. 24 Образец выполнения задания

Таблица 8 Варианты задания «Разрез сложный»:

<p>1</p>	<p>Technical drawing of a complex part. The top view shows a semi-circular end on the right and a rectangular body on the left. The front view shows a rectangular profile with a semi-circular top on the right side. Hidden lines are shown with dashed lines.</p>
<p>2</p>	<p>Technical drawing of a rectangular part. The top view shows a central circular feature with concentric circles and a smaller circle on the left. The front view shows a rectangular profile with a central slot and two side handles. Hidden lines are shown with dashed lines.</p>
<p>3</p>	<p>Technical drawing of a rectangular part. The top view shows a central circular feature with concentric circles and four corner holes. The front view shows a rectangular profile with a central slot and four corner holes. Hidden lines are shown with dashed lines.</p>

Таблица 8 (продолжение)

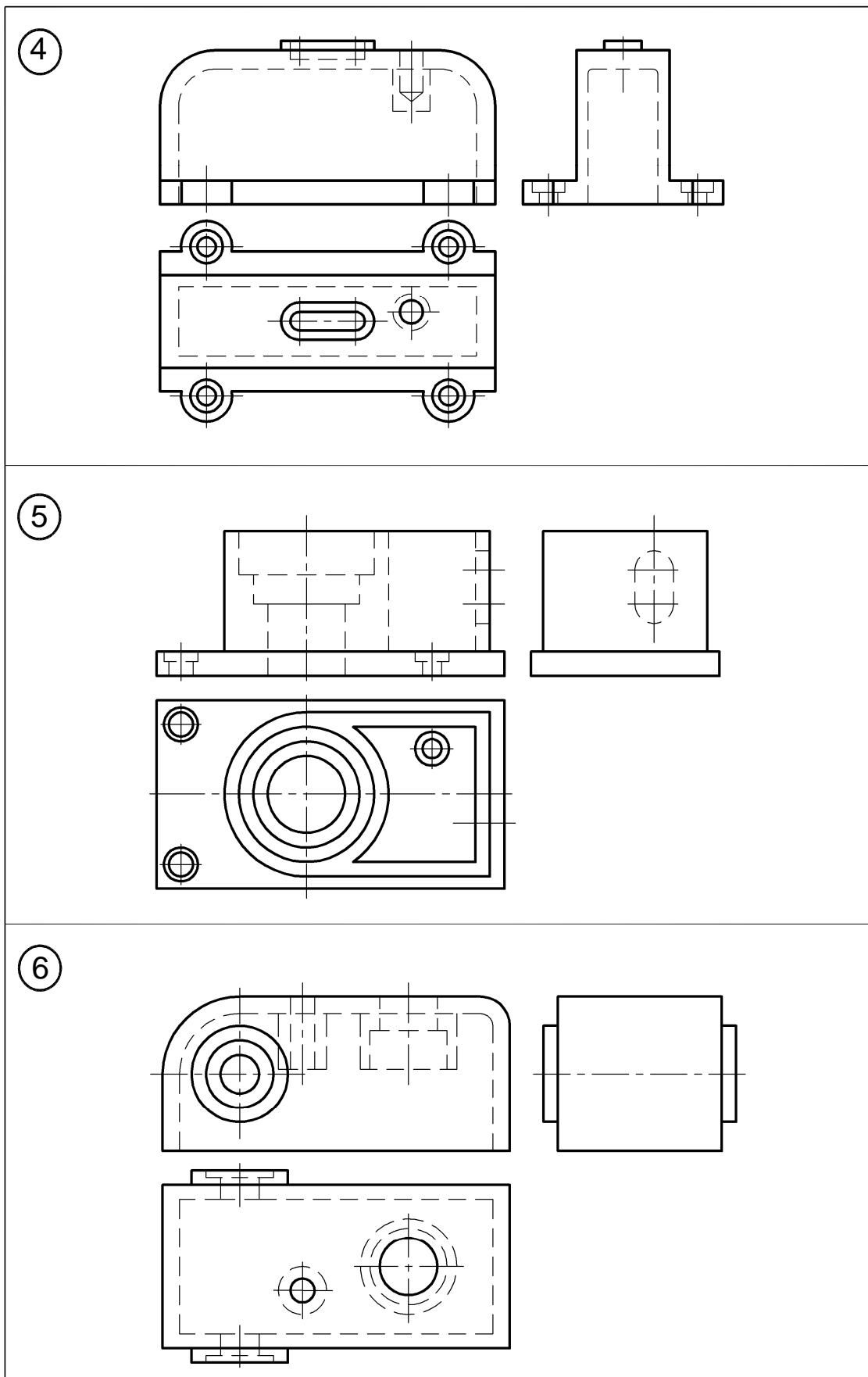


Таблица 8 (продолжение)

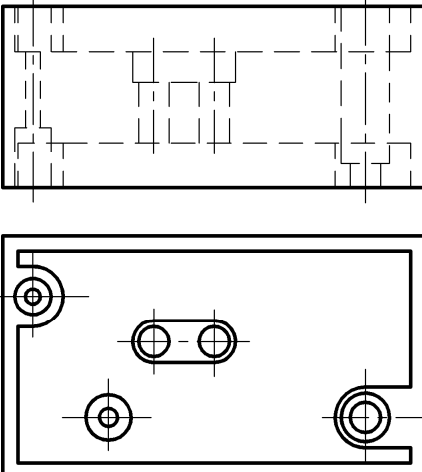
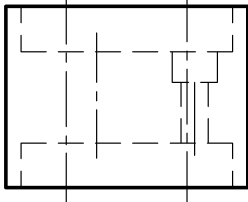
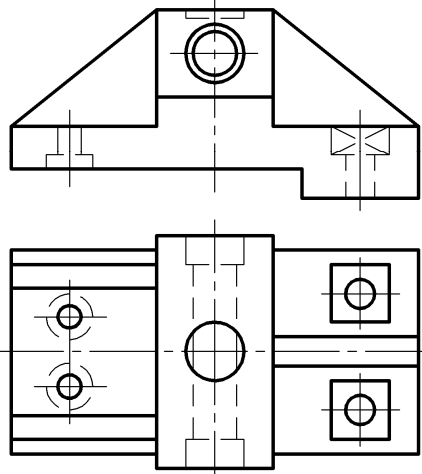
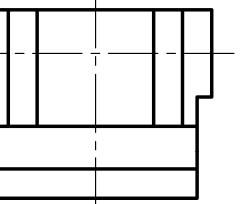
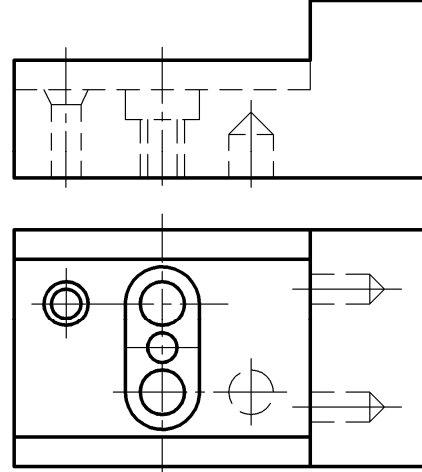
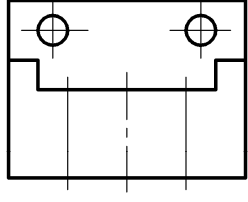
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Таблица 8 (продолжение)

<p>10</p>	<p>Technical drawing of a mechanical part (10). The front view shows a stepped cylindrical part with a central hole and a chamfered top edge. The top view shows a rectangular shape with a central hole and two smaller holes on the right side. The side view shows a stepped cylindrical profile with a chamfered top edge.</p>
<p>11</p>	<p>Technical drawing of a mechanical part (11). The front view shows a stepped cylindrical part with a central hole and a chamfered top edge. The top view shows a rectangular shape with a central hole and two smaller holes on the right side. The side view shows a stepped cylindrical profile with a chamfered top edge.</p>
<p>12</p>	<p>Technical drawing of a mechanical part (12). The front view shows a stepped cylindrical part with a central hole and a chamfered top edge. The top view shows a rectangular shape with a central hole and two smaller holes on the right side. The side view shows a stepped cylindrical profile with a chamfered top edge.</p>

Таблица 8 (продолжение)

<p>13</p>	<p>Technical drawing of a part. The top view shows a circular hole with a cross-shaped feature inside. The front view shows a rectangular shape with a vertical slot and a horizontal line.</p>	<p>Technical drawing of a part. The top view shows a circular hole with a cross-shaped feature inside. The front view shows a rectangular shape with a vertical slot and a horizontal line.</p>
<p>14</p>	<p>Technical drawing of a part. The top view shows a slanted top surface and a circular hole. The front view shows a rectangular shape with a vertical slot and a horizontal line.</p>	<p>Technical drawing of a part. The top view shows a slanted top surface and a circular hole. The front view shows a rectangular shape with a vertical slot and a horizontal line.</p>
<p>15</p>	<p>Technical drawing of a part. The top view shows a circular hole with a cross-shaped feature inside. The front view shows a rectangular shape with a vertical slot and a horizontal line.</p>	<p>Technical drawing of a part. The top view shows a circular hole with a cross-shaped feature inside. The front view shows a rectangular shape with a vertical slot and a horizontal line.</p>

Таблица 8 (продолжение)

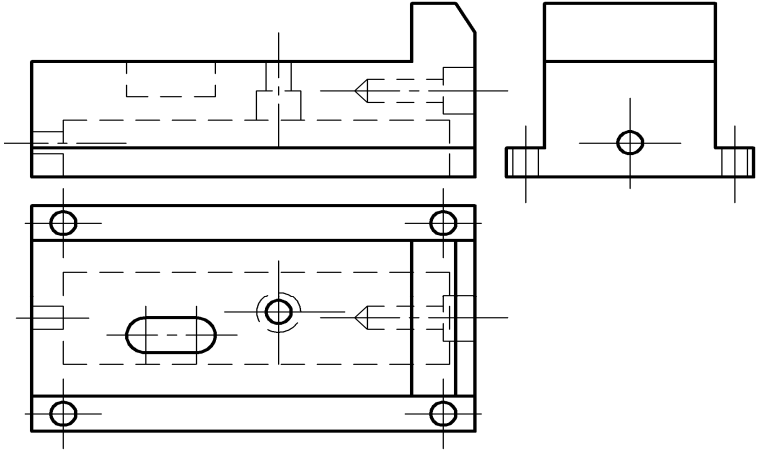
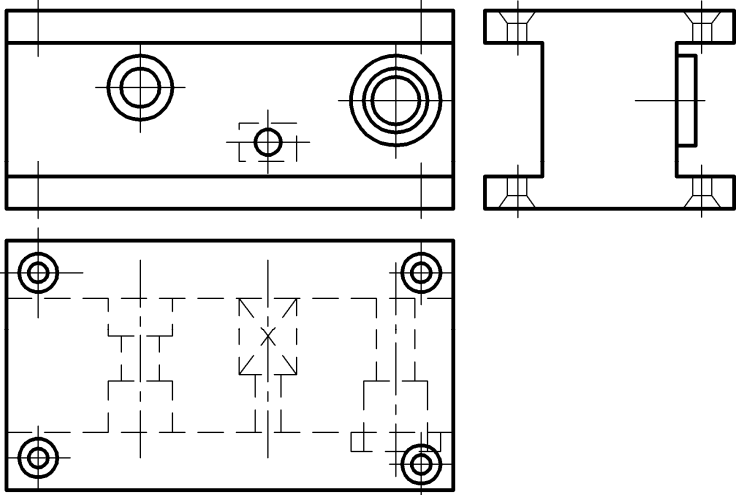
<p>16</p> 
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Таблица 8 (продолжение)

<p>19</p>	<p>Technical drawing of a mechanical part (19). It consists of three views: a front view (top left) showing a U-shaped component with a central rectangular block and a small detail on the right; a top view (bottom) showing a rectangular base with a large central circular hole and two smaller circular holes on the left; and a side view (top right) showing a rectangular block with a central circular hole.</p>
<p>20</p>	<p>Technical drawing of a mechanical part (20). It consists of three views: a front view (top left) showing a U-shaped component with a curved top and two vertical legs; a top view (bottom) showing a rectangular base with a large central circular hole and four smaller circular holes on the sides; and a side view (top right) showing a square block with a central circular hole.</p>
<p>21</p>	<p>Technical drawing of a mechanical part (21). It consists of three views: a front view (top left) showing a rectangular base with a vertical rectangular block on top; a top view (bottom) showing a rectangular base with four circular holes and a rectangular block on the right; and a side view (top right) showing a rectangular block with a circular hole on top.</p>

Таблица 8 (продолжение)

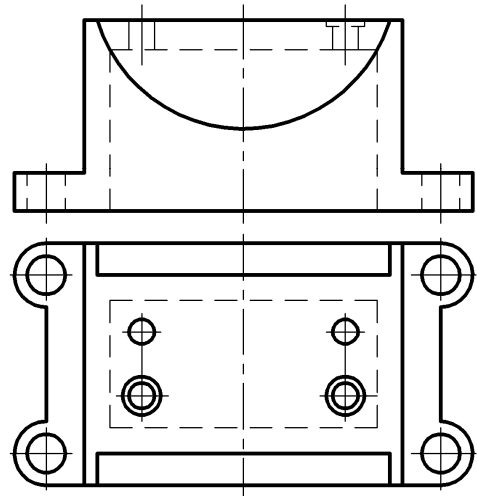
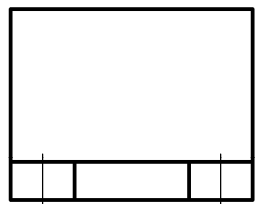
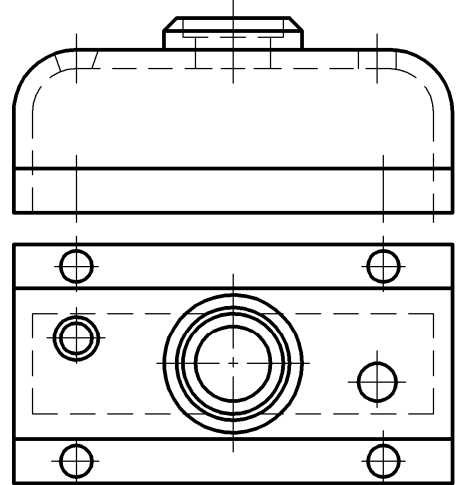
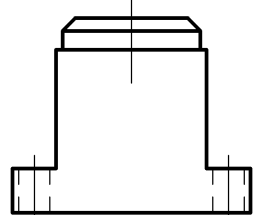
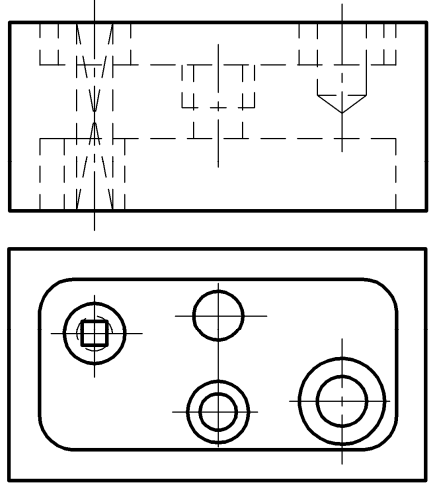
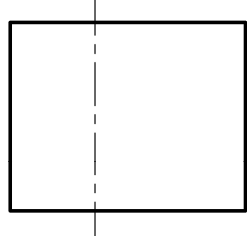
<p>22</p>	 <p>Technical drawing of a mechanical part (22). The front view shows a rectangular base with a semi-circular cutout on top. The top view shows a rectangular shape with four circular features arranged in a 2x2 grid.</p>	 <p>Side view of the mechanical part (22), showing a rectangular profile with a semi-circular cutout on top.</p>
<p>23</p>	 <p>Technical drawing of a mechanical part (23). The front view shows a rounded top with a small rectangular protrusion. The top view shows a rectangular shape with a central circular feature and four corner holes.</p>	 <p>Side view of the mechanical part (23), showing a rectangular profile with a rounded top.</p>
<p>24</p>	 <p>Technical drawing of a mechanical part (24). The front view shows a complex internal structure with multiple holes and a central feature. The top view shows a rectangular shape with four circular features arranged in a 2x2 grid.</p>	 <p>Side view of the mechanical part (24), showing a rectangular profile.</p>

Таблица 8 (продолжение)

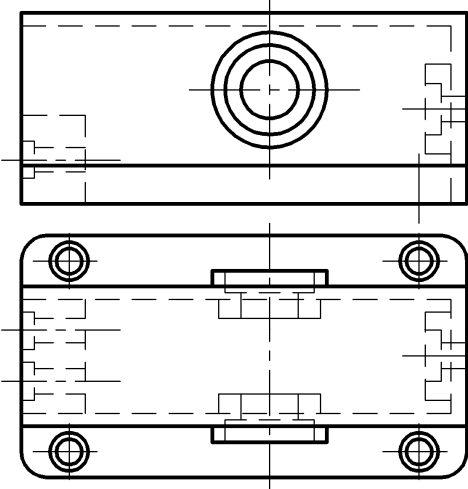
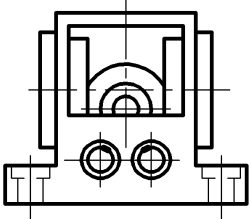
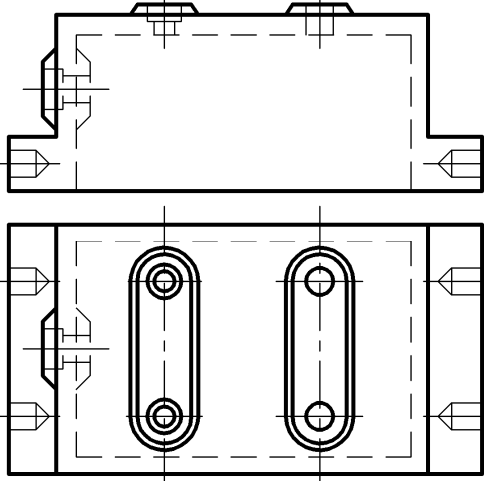
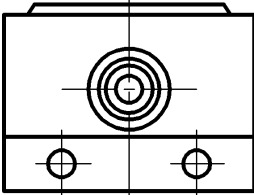
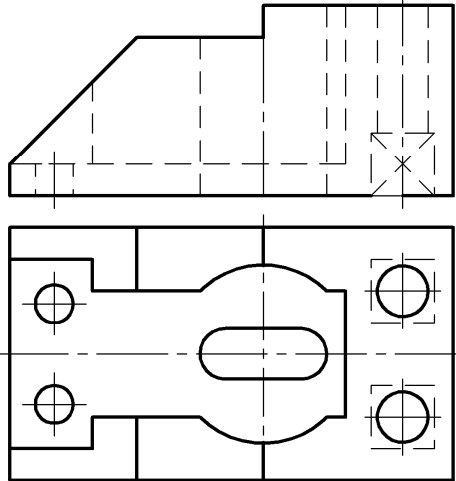
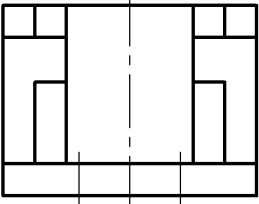
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Таблица 8 (продолжение)

<p>28</p>	<p>Technical drawing showing the front and top views of a mechanical part. The front view shows a stepped cylindrical profile with a semi-circular end on the left. The top view shows a rectangular shape with a semi-circular end on the right, containing several circular features and a central hole.</p>	<p>Technical drawing showing the side view of the mechanical part, illustrating its stepped cylindrical profile.</p>
<p>29</p>	<p>Technical drawing showing the front and top views of a mechanical part. The front view shows a stepped cylindrical profile with a rectangular end on the right. The top view shows a rectangular shape with a rectangular end on the right, containing several circular features and a central hole.</p>	<p>Technical drawing showing the side view of the mechanical part, illustrating its stepped cylindrical profile.</p>
<p>30</p>	<p>Technical drawing showing the front and top views of a mechanical part. The front view shows a stepped cylindrical profile with a rectangular end on the right. The top view shows a rectangular shape with a rectangular end on the right, containing several circular features and a central hole.</p>	<p>Technical drawing showing the side view of the mechanical part, illustrating its stepped cylindrical profile.</p>