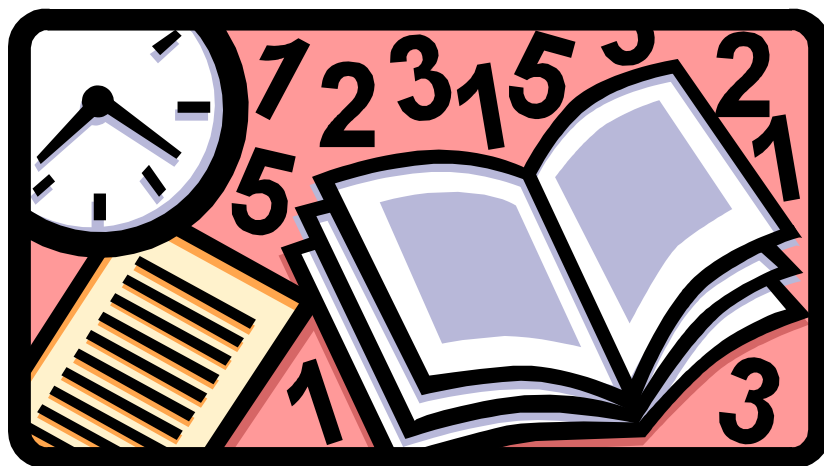


**O'zbekiston Respublikasi Oliy va o'rta maxsus
ta'lim Vazirligi**

Toshkent avtomobil-yo'llar instituti

“Chizma geometriya va grafika” kafedrası

***CHIZMA GEOMETRIYADAN
MASALALAR TO'PLAMI***



Toshkent-2010

Maskur to'plam institutning YeUTT - 5521100, TVF - 5521200, kasbiy ta'lim - 5140900, TGIQ va BIQ – 558300 yo'nalishlarida taxsil olayotgan birinchi kurs talabalariga mo'ljallangan bo'lib, «Chizma geometriya» fanining na'munaviy dasturi asosida tuzilgan. Mazkur to'plam o'qituvchilarga amaliy mashg'ulotlar o'qazish uchun uslubiy qo'llanma sifatida ishlatilsa, talabalar uchun chizma geometriyadan masalalar echish uchun ish daftari sifatida qo'llanilishi mumkin.

To'plamda «Chizma geometriya» fanining nuqta, to'g'ri chiziq va sirlarga oid mavzulari bo'yicha masalalar keltirilgan.

Tuzuvchilar: *Sindarov R.U.* – *Chizma geometriya va grafika» kafedrası dotsenti, t.f.n.*

Taqrizchilar: *Усманов Т.* – *TAYI «Chizma geometriya va grafika» kafedrası katta o'qituvchisi.*

Davletov S.A. – *TTESI «ChG va MG» kafedrası dosenti*

«Chizma geometriya va grafika» kafedrası majlisida tasdiqlangan.

Bayonnoma №__4 12.10.09._____

Fundamental ta'lim fakulteti o'quv uslubiy kengashi tomonidan tasdiqlangan. Bayonnoma №_5 28.11.09__

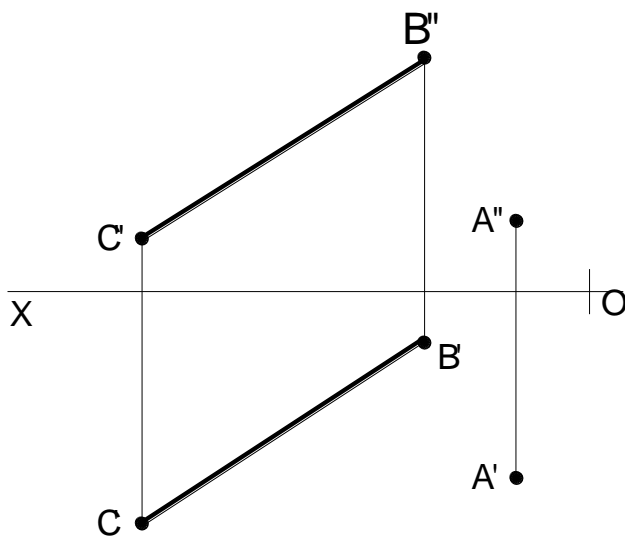
6 –mashg'ulot

Savollar:

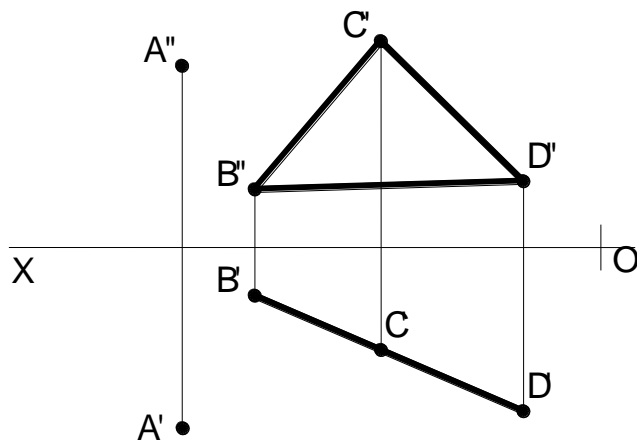
- 1) *Togri chiziq va tekislikning o'zaro holati.*
- 2) *To'g'ri chiziq va tekislikning paralleligi.*
- 3) *To'g'ri chiziq va tekislikning o'zaro kesishuvi.*
- 4) *To'g'ri chiziq va tekislikning o'zaro perpendikulyarligi.*

Masalalar:

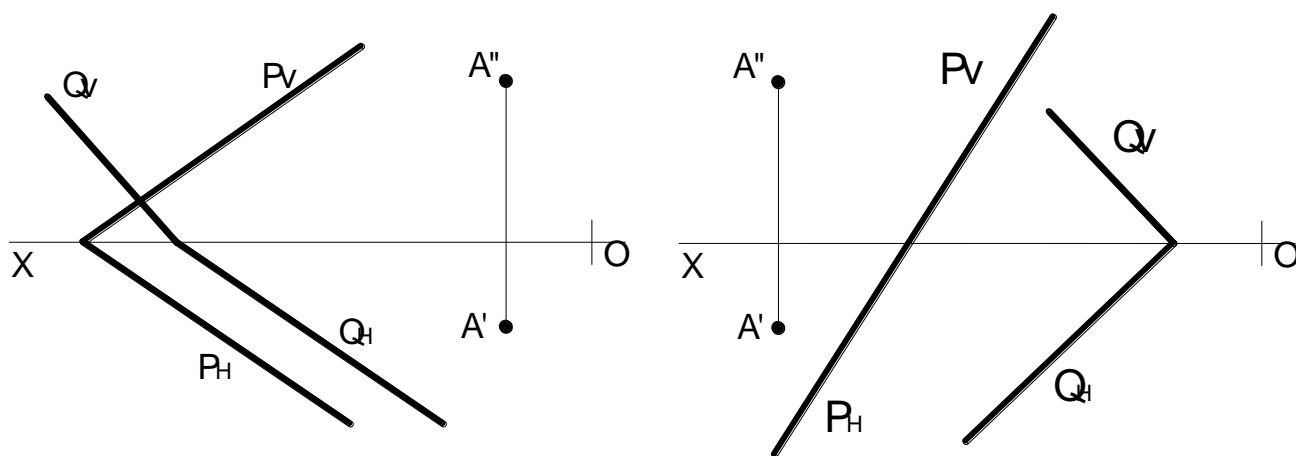
1. A va P_x nuqtalar orqali CB kesmaga parallel bo'lgan P tekislik o'tkazilsin



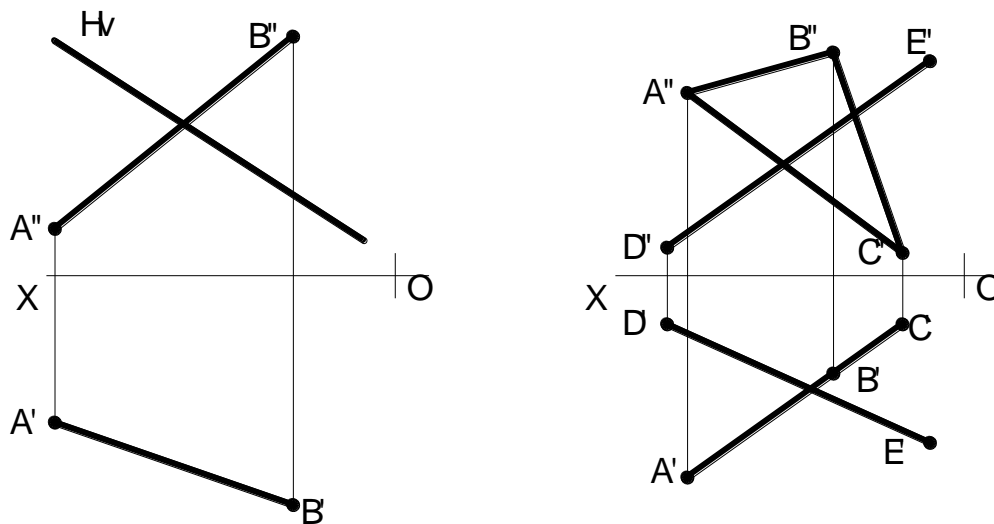
2. A nuqtadan BCD uchburchakka parallel bo'lgan to'g'ri chiziq o'tkazing



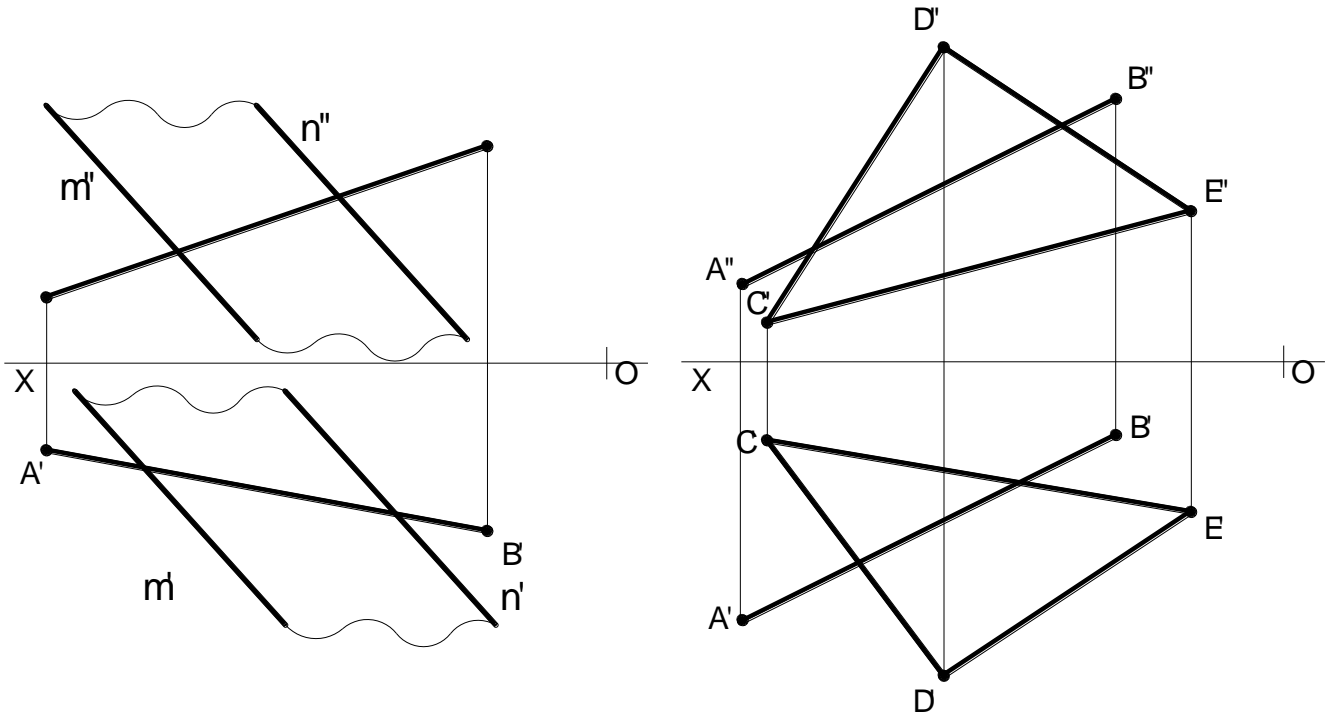
3. A nuqtadan P va Q tekisliklarga parallel bo'lgan to'g'ri chiziq o'tkazing



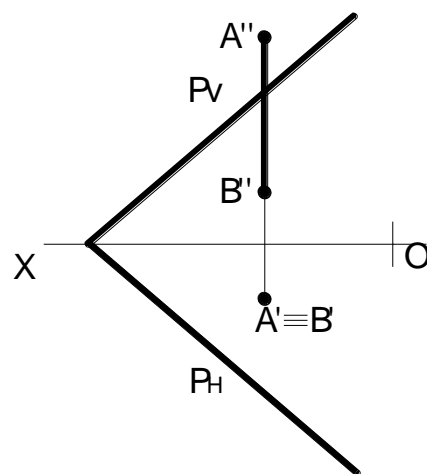
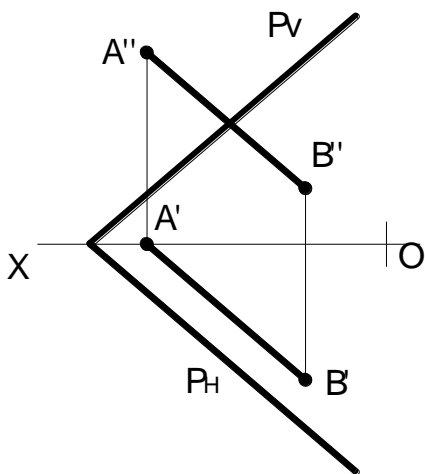
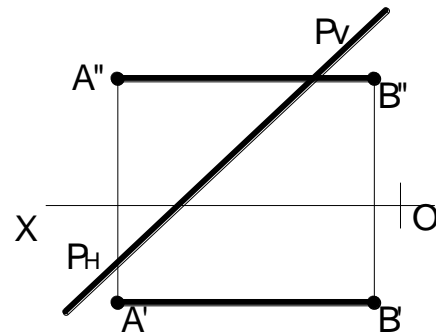
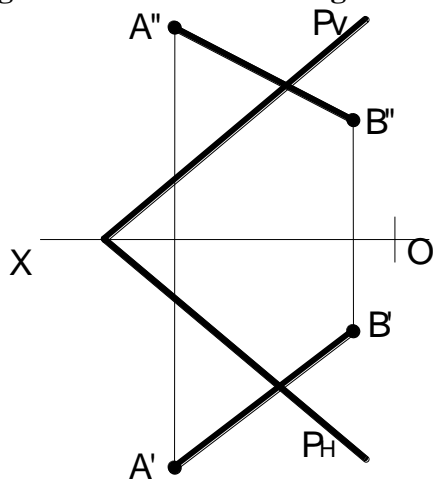
4. AB kesmaning berilgan tekislik bilan kesishish nuqtasining proyeksiyalari aniqlansin



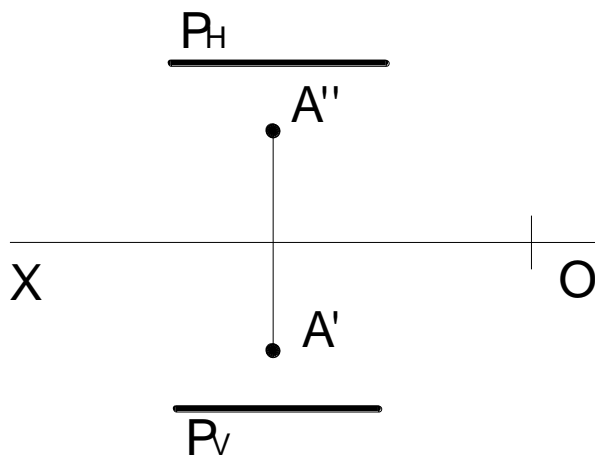
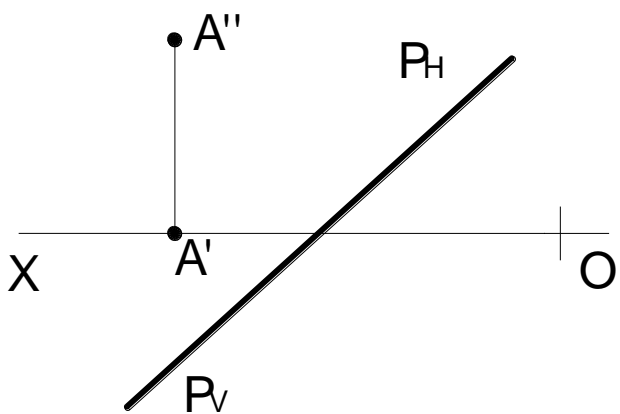
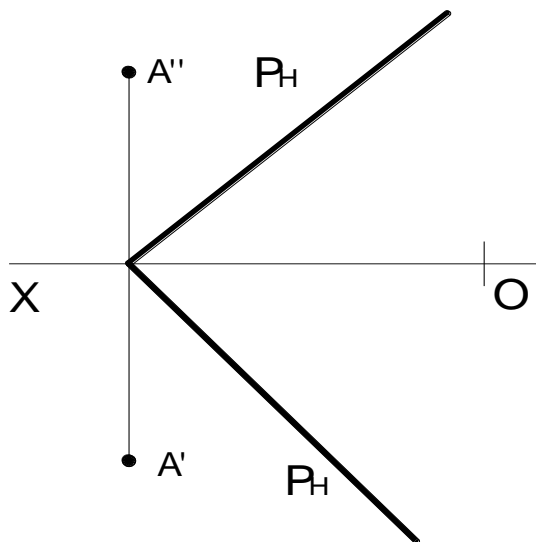
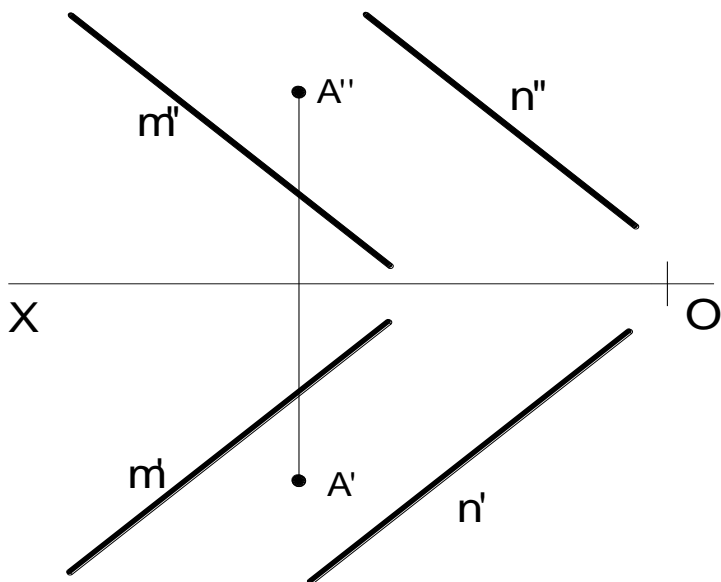
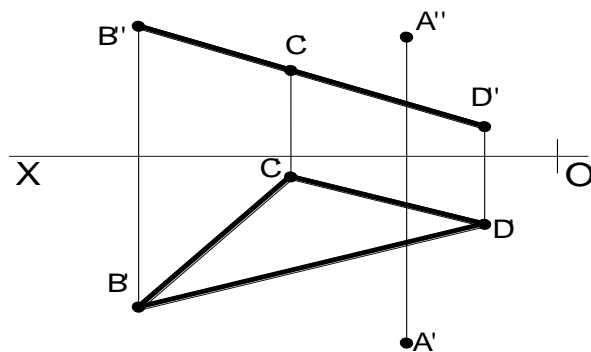
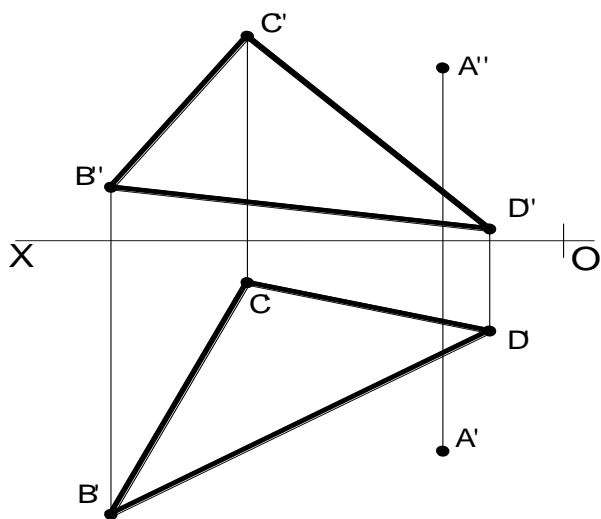
5. AB kesmaning berilgan tekislik bilan kesishish nuqtasining proyeksiyalari aniqlansin. To'g'ri chiziqning ko'rinishligi aniqlansin



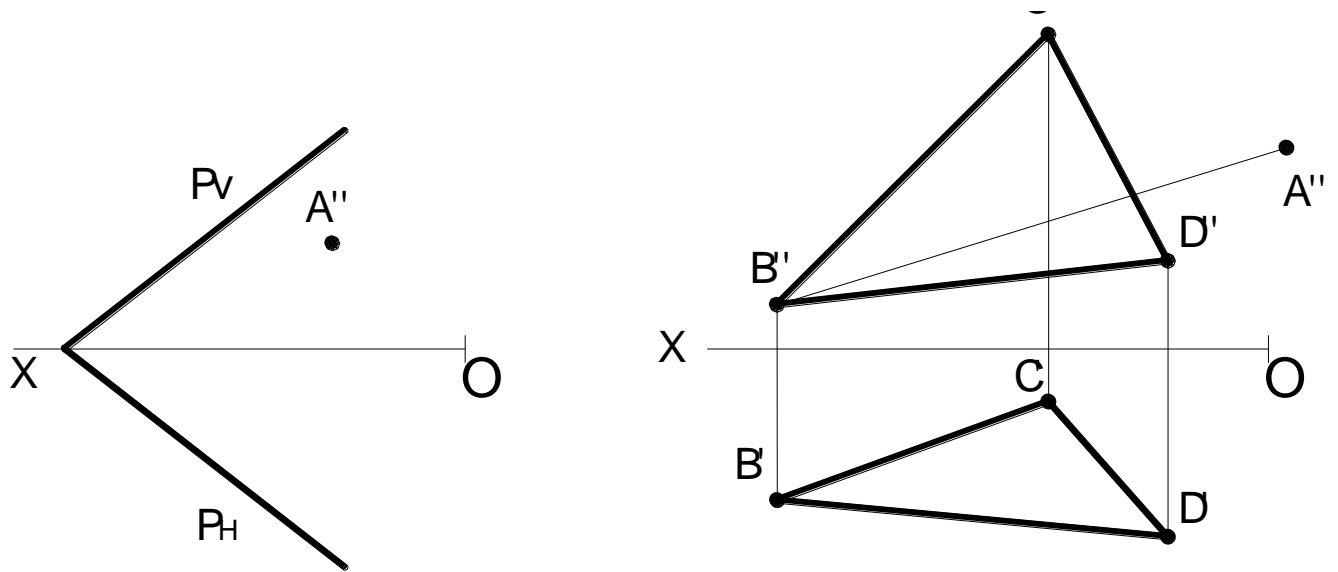
6. Berilgan tekislik bilan AB to'g'ri chiziqning kesishish nuqtasining proyeksiyalari yasalsin



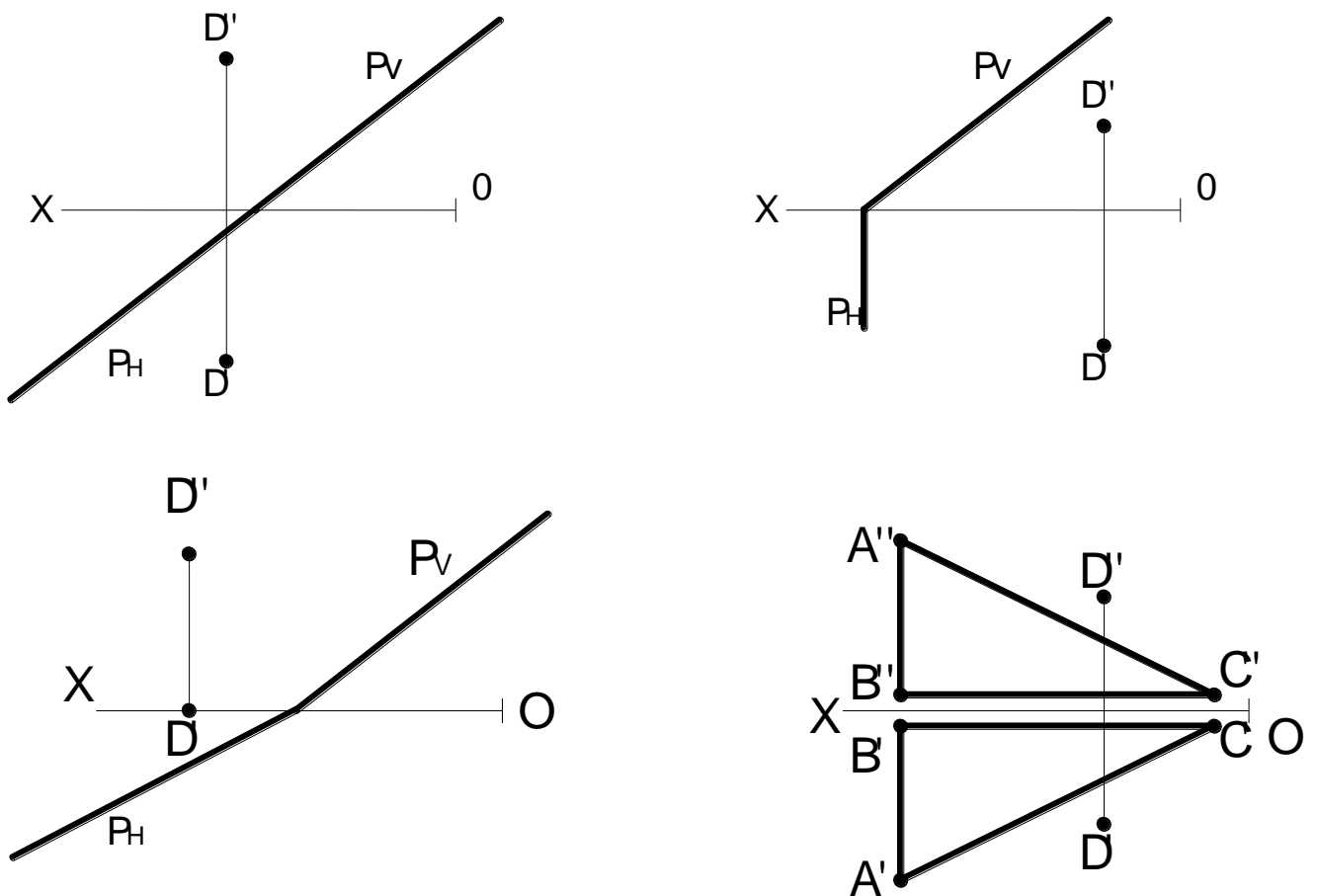
7. Berilgan tekislikdan 20 mm uzoqlikda yotgan nuqtadan tekislikka perpendikulyar o'tkazing



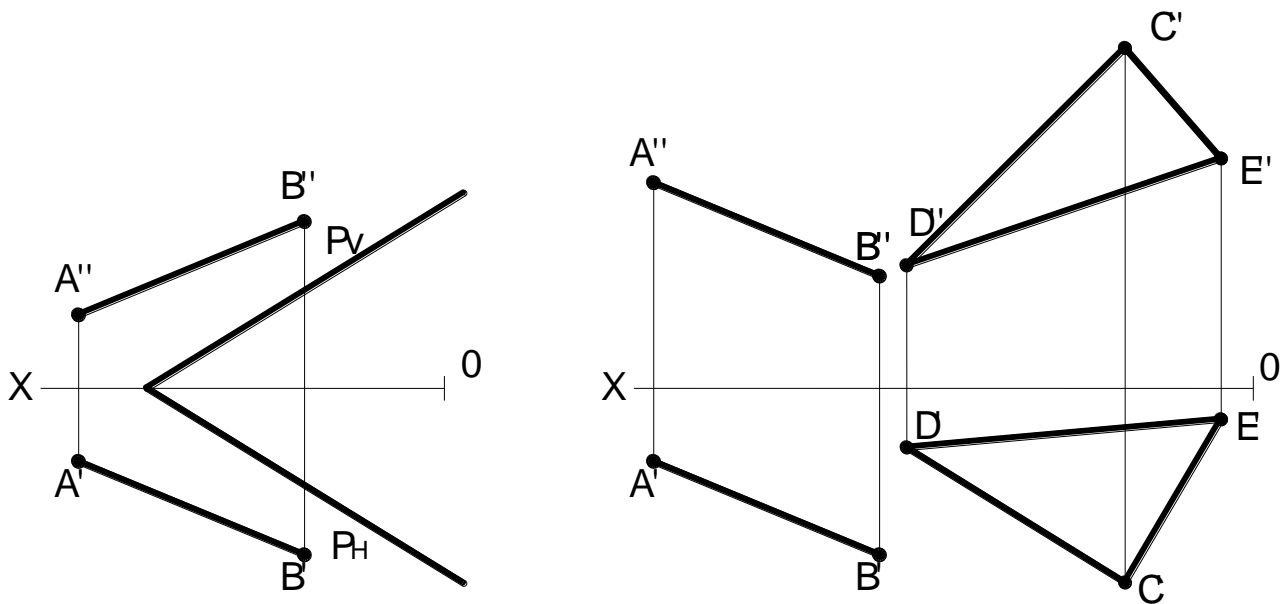
3. Berilgan tekislikda yotgan A nuqtadan shu tekislikka perpendikulyar va uzunligi 30 mm ga teng bo'lgan to'g'ri chiziq o'tkazilsin chiqarilsin



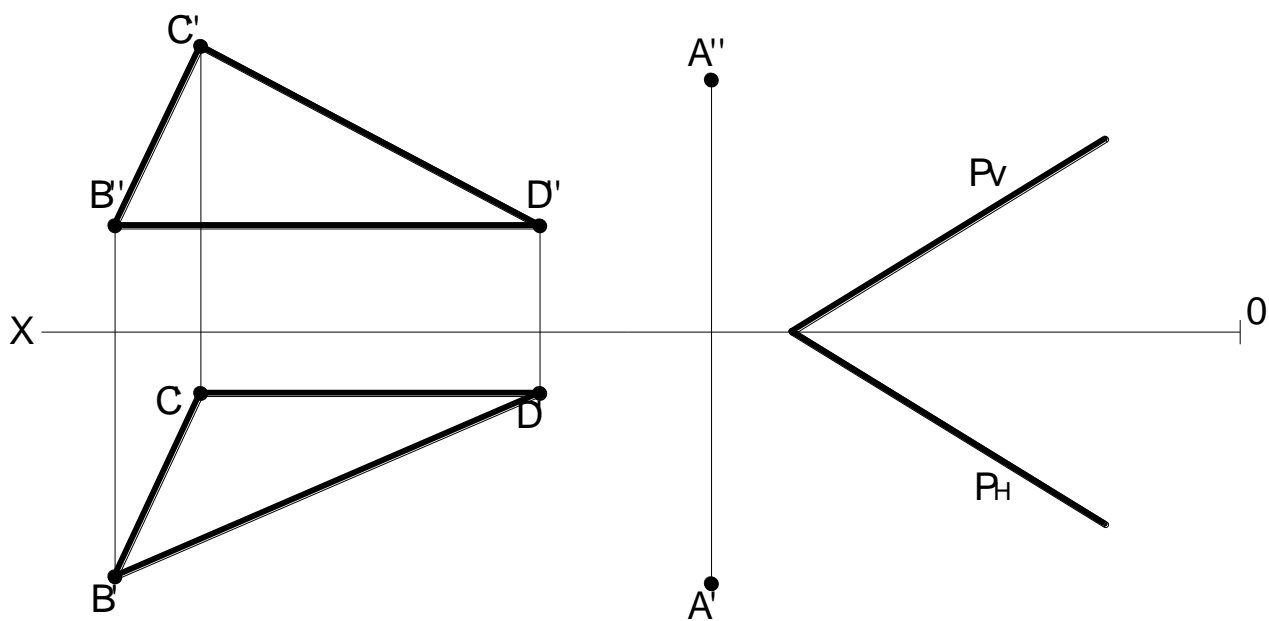
4. D nuqtadan P(ABC) tekislikkacha bo'lgan eng qisqa masofa aniqlansin



1. AB chiziqdan berilgan tekislikka perpendikulyar bo'lgan tekislik o'tkazilsin



2. A nuqtadan berilgan BCD uchburchak va P tekisliklarga perpendikulyar bo'lgan tekislik o'tkazilsin



Adabiyot

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Mundarija

<i>Togri chiziq va tekislikning o'zaro holati.....</i>	<i>3</i>
<i>To'g'ri chiziq va tekislikning parallelligi.....</i>	<i>3</i>
<i>To'g'ri chiziq va tekislikning o'zaro kesishuvi.....</i>	<i>3</i>
<i>To'g'ri chiziq va tekislikning o'zaro perpendikulyarligi.....</i>	<i>3</i>
<i>Izlari bilan berilmagan tekisliklarning o'zaro kesishuv chizig'ini yasash...7</i>	<i>7</i>
<i>Nuqtadan tekislikkacha bo'lgan masofani aniqlash.....7</i>	<i>7</i>
<i>Berilgan tekislikka perpendikulyar bo'lgan tekislik o'tkazish.....7</i>	<i>7</i>