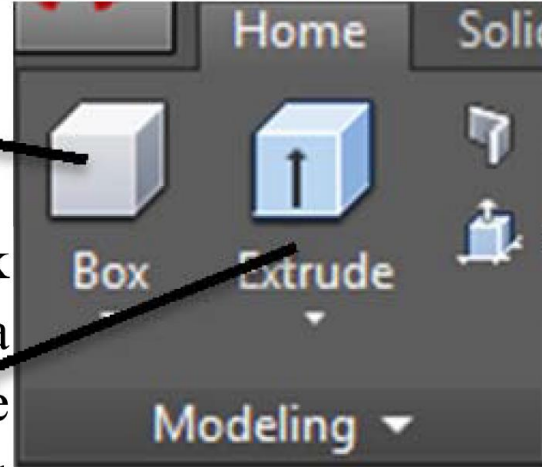


BÖLÜM 10

3B MODELLEME

İlkel (basit) katılar
oluřturma

2B'lu çizime yükseklik
vererek, bir eksen etrafında
döndürerek veya süpürme
yöntemiyle 3B katı
oluřturma



3 boyutlu katı duvar
oluřturma

Sıkıřtırma veya uzatma

Basit katı oluřturma yntemiyle 3B modelleme



Kutu veya kp oluřturma

3B Silindir oluřturma

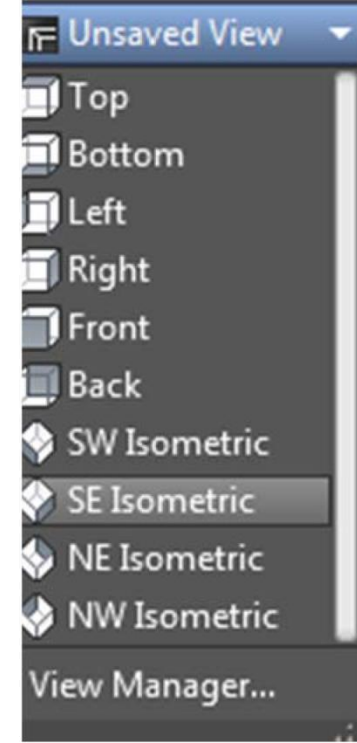
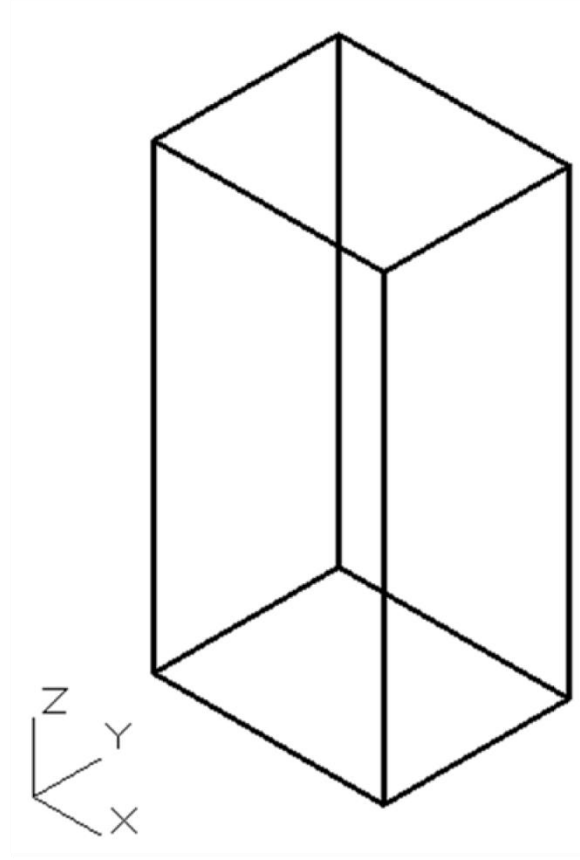
3B Konik oluřturma

3B Kre oluřturma

3B Primit oluřturma

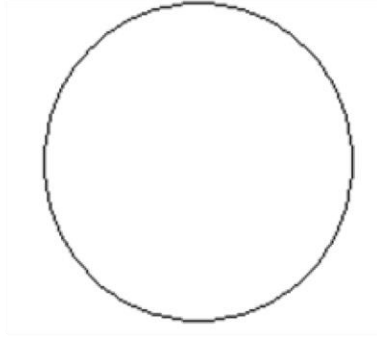
3B kama oluřturma

3B simit (halka) oluřturma

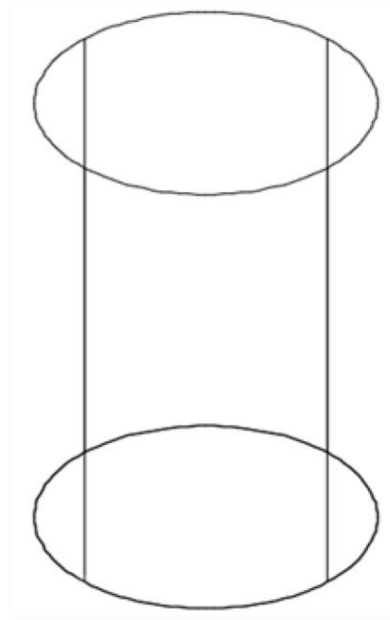


Oluşturulan katı kutunun izometrik görüntüsü

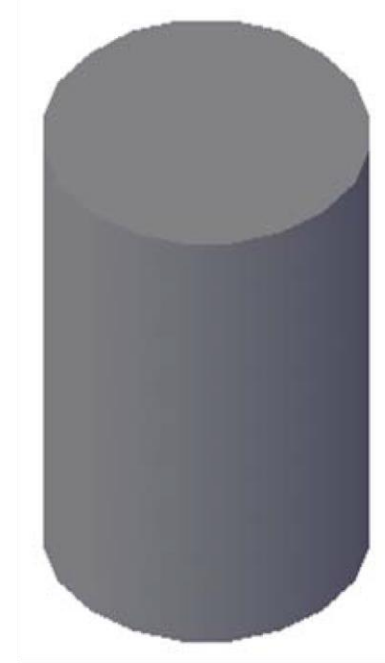
Aşağıda **2P** (iki nokta) belirlenerek silindir çizmeye örnek verilmiştir.



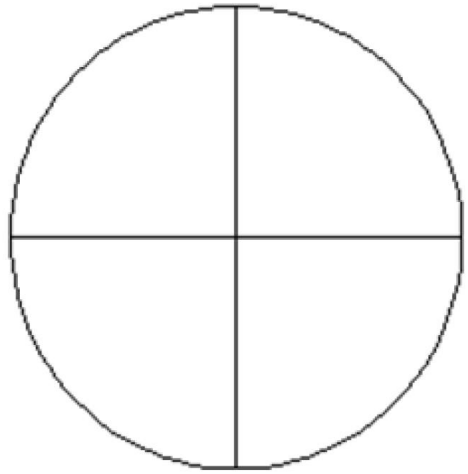
2B görüntü



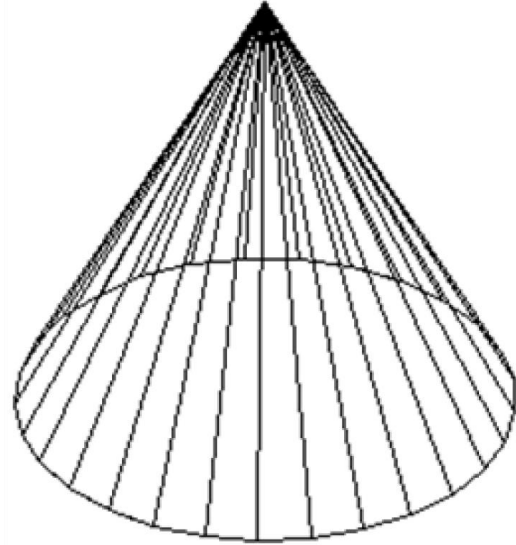
Tel kafes görüntü



Katı görüntü



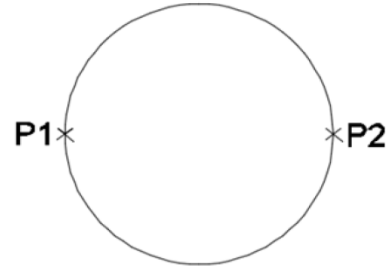
2B görüntü



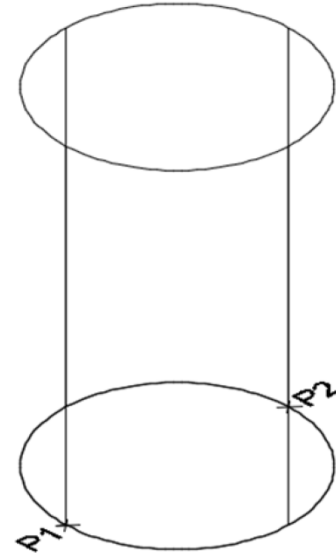
Tel kafes görüntü



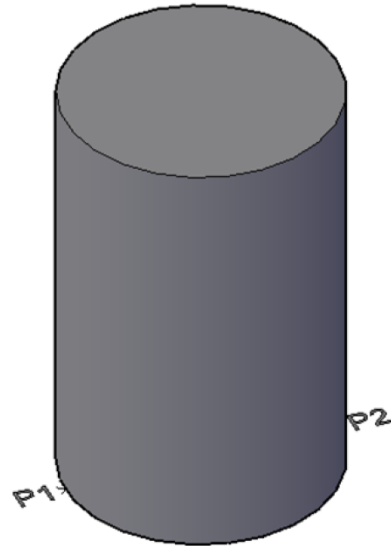
Katı görüntü



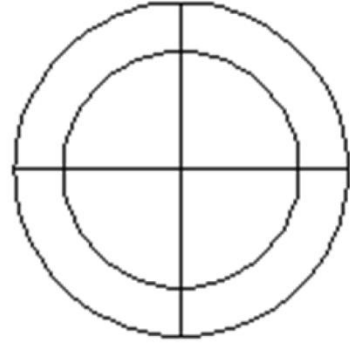
2B görüntü



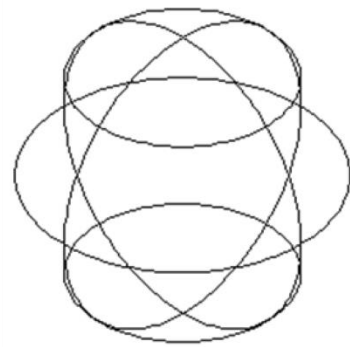
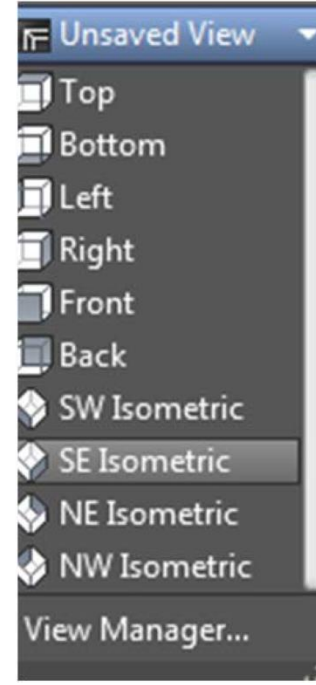
Tel kafes görüntü



Katı görüntü



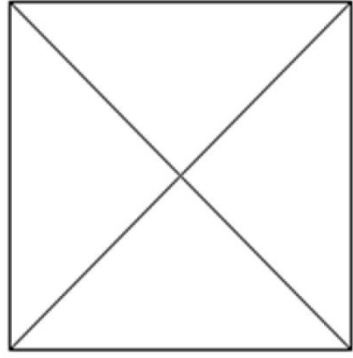
2B görüntü



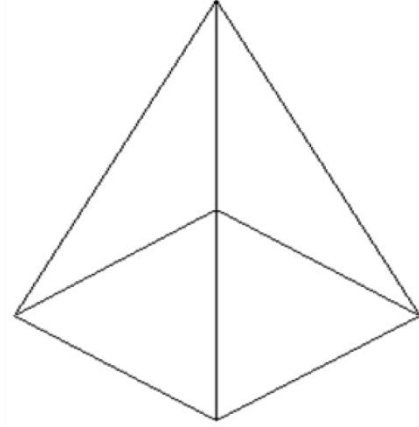
Tel kafes görüntü



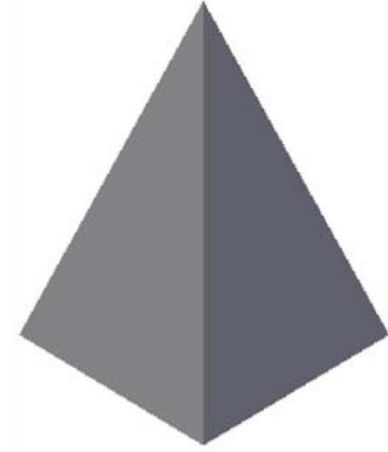
Katı görüntü



2B görüntü



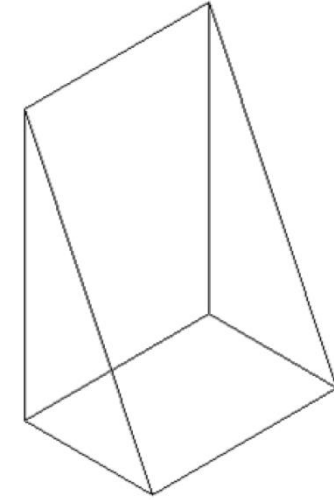
Tel kafes görüntü



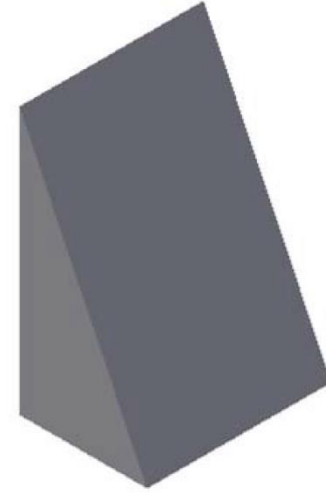
Katı görüntü



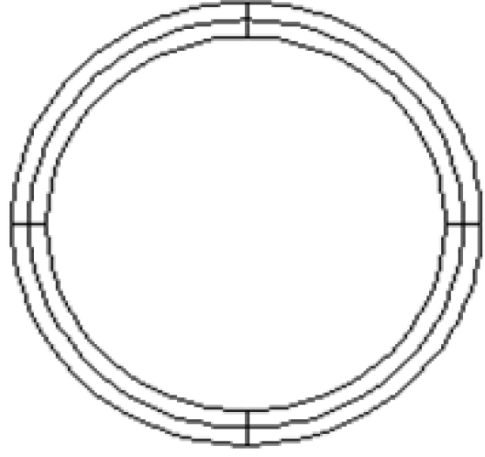
2B görüntü



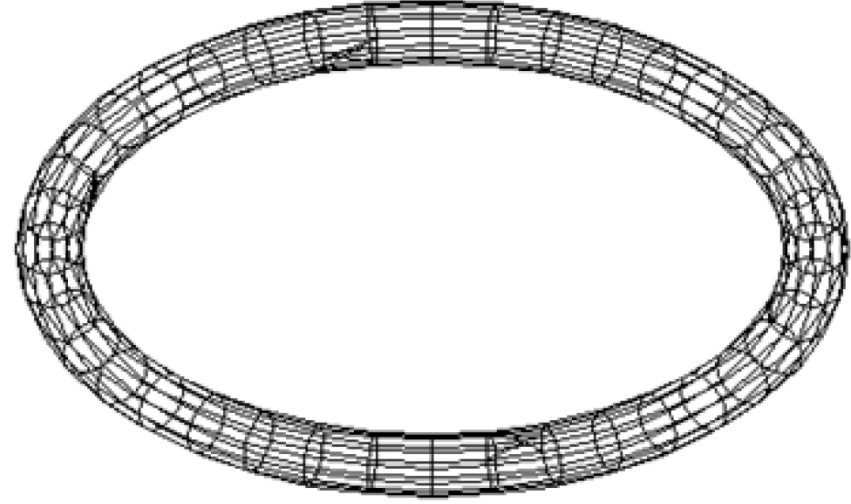
Tel kafes görüntü



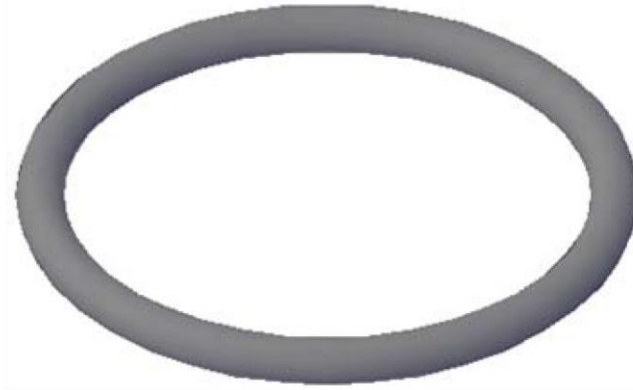
Katı görüntü



2B görüntü

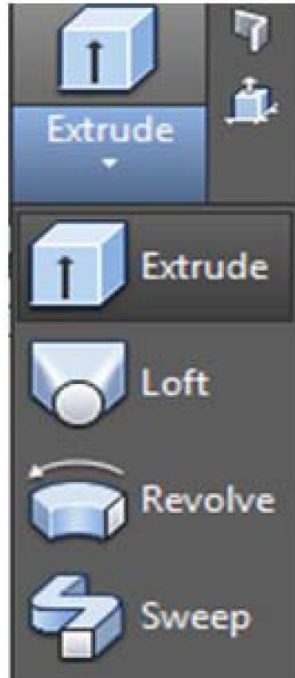


Tel kafes görüntü



Katı görüntü

Katı modelleme (Solid Modeling)



Yükseklik/derinlik vererek katı oluşturma

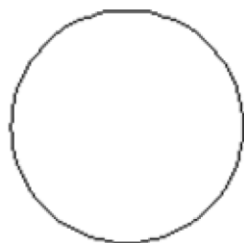
Kesit vererek katı oluşturma

2B yüzeyi bir eksene göre döndürerek 3B katı oluşturma

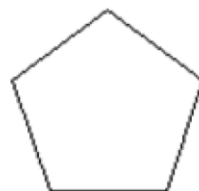
2B bir yüzeyi bir yol takip ettirerek (süpürerek) katı oluşturma



Rectangle



Circle



Polygon



Elipse



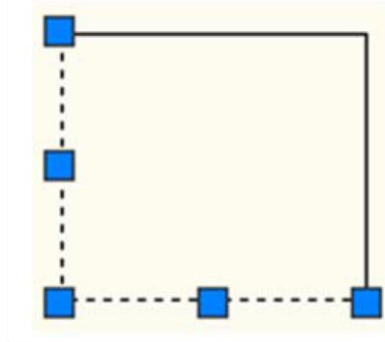
Polyline



Line



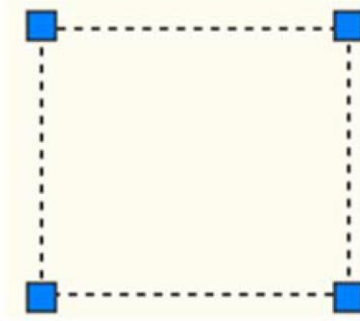
Line ve arc



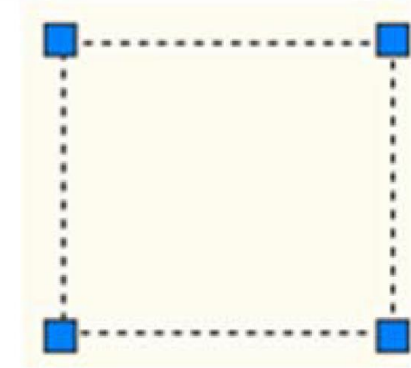
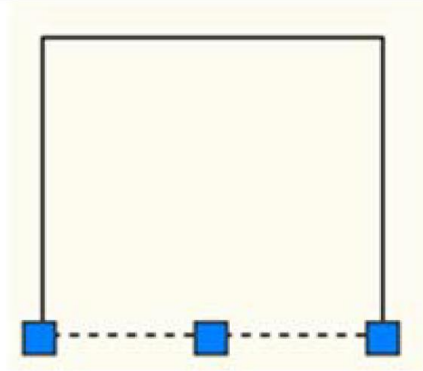
Line ile çizilmiş çizim

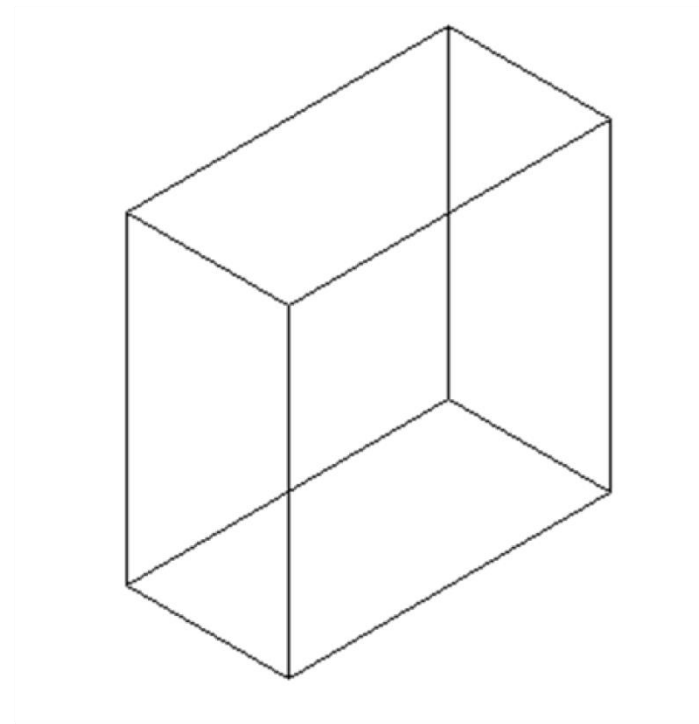
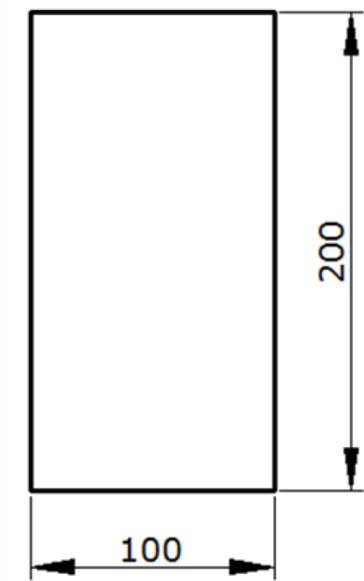
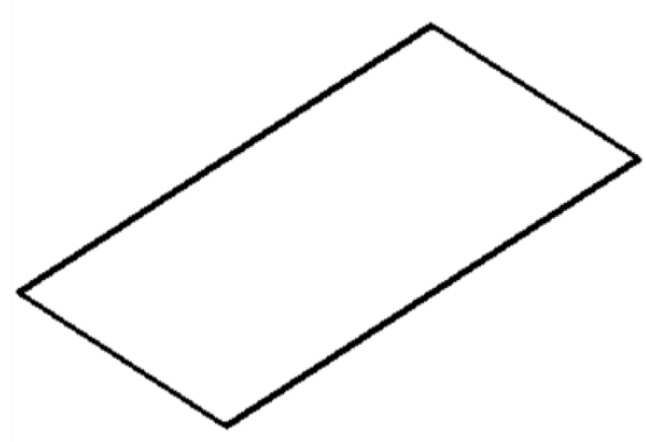
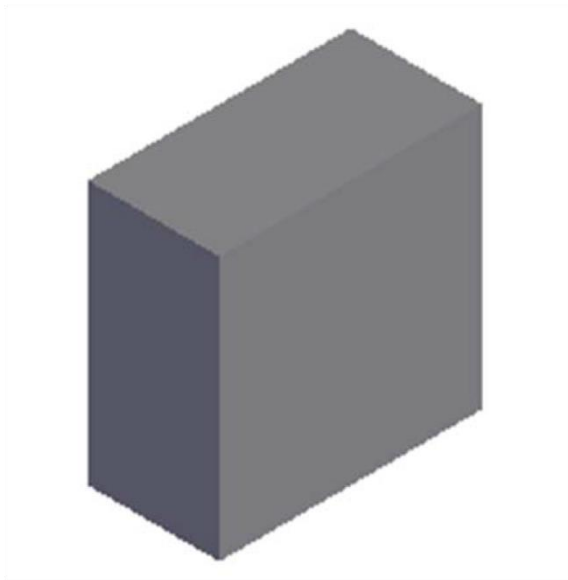


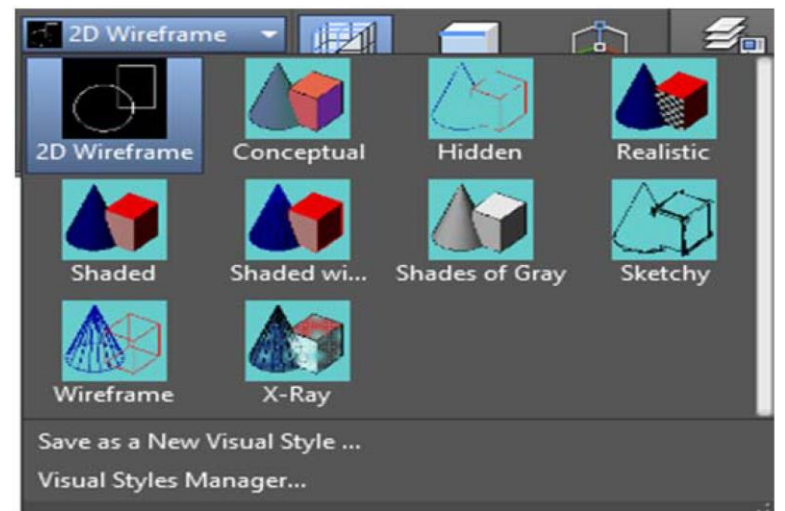
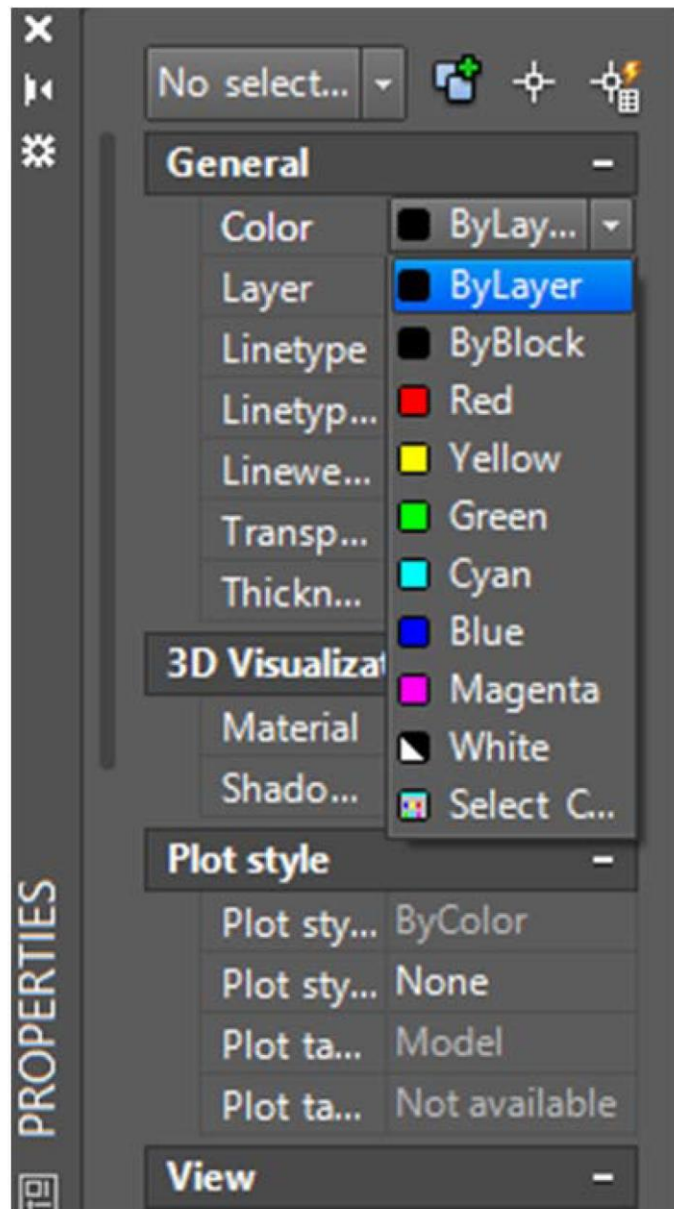
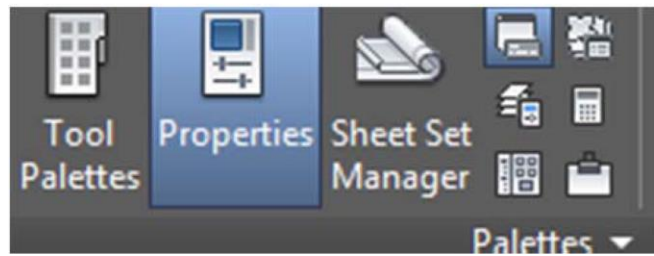
Region komutu alınarak
nesnenin seçilmiş hali

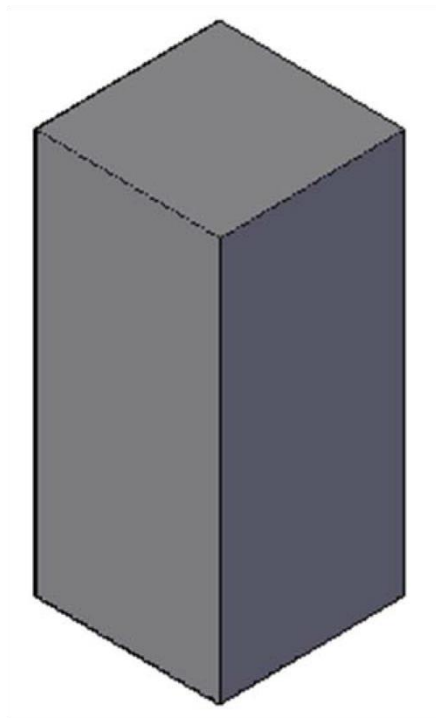
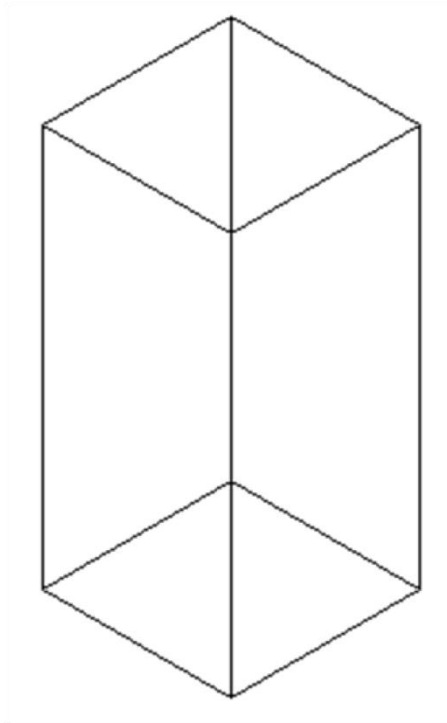
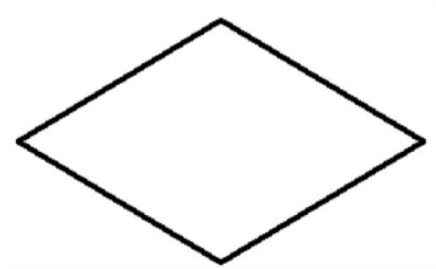
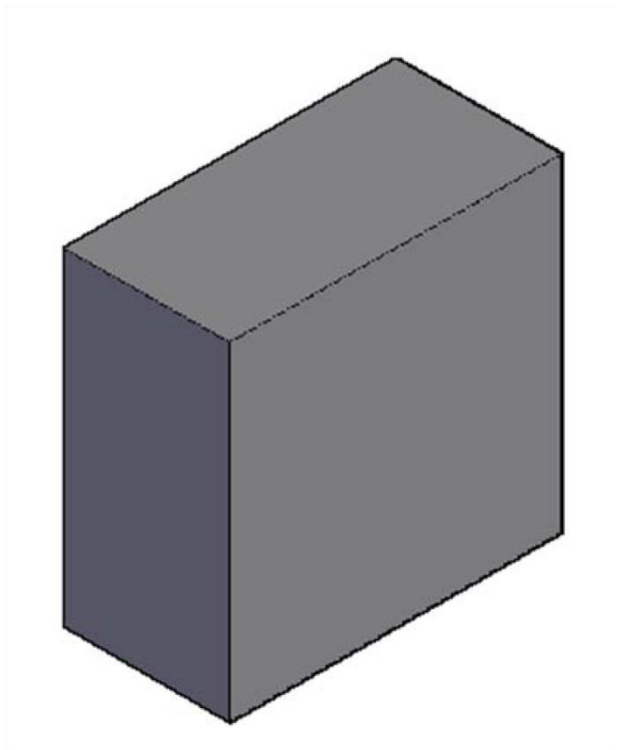


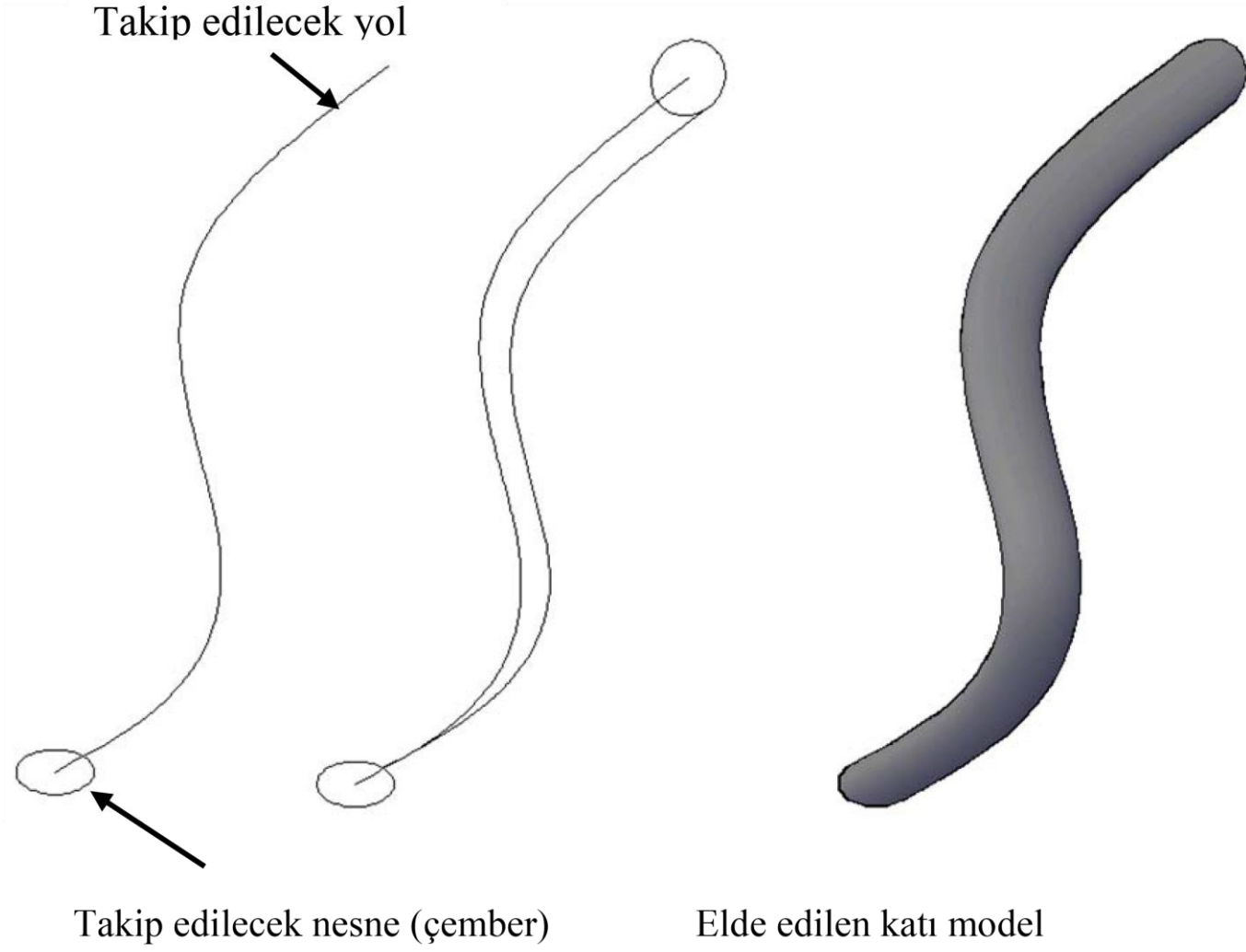
Çizimin birleşik
çizilmiş gibi hali



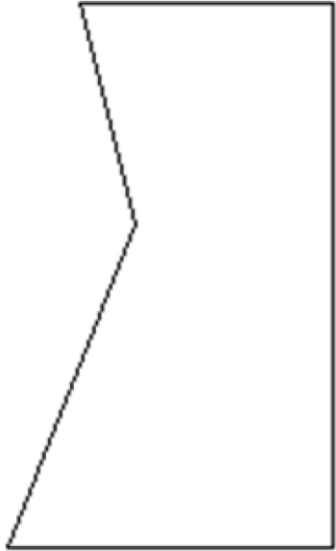






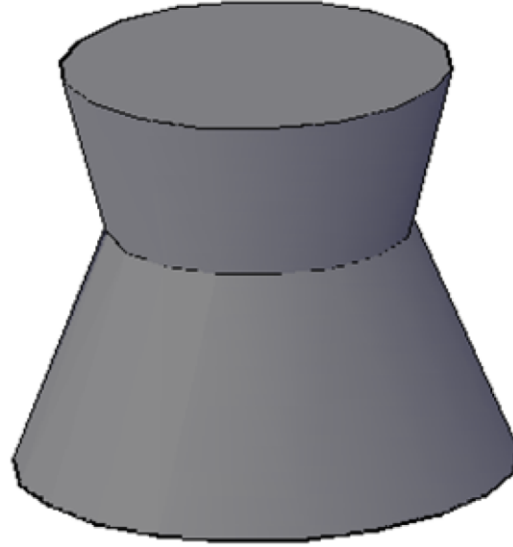


Revolve 2B Yüzeyleri Bir Eksene Göre Döndürerek 3B Katı Oluşturma

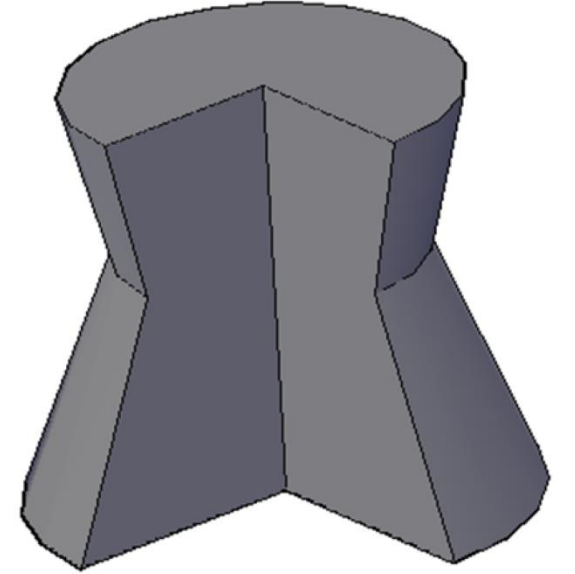


Eksenin ilk noktası P1

Eksenin ikinci noktası P2

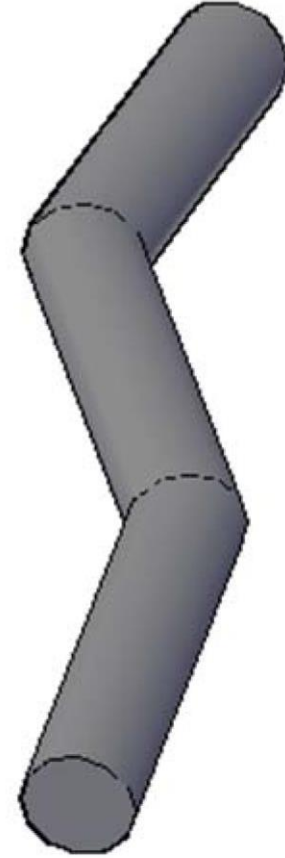
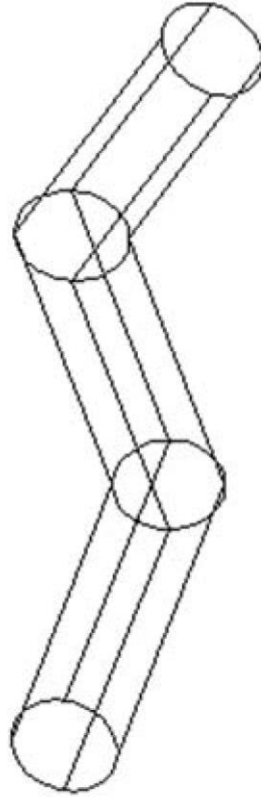


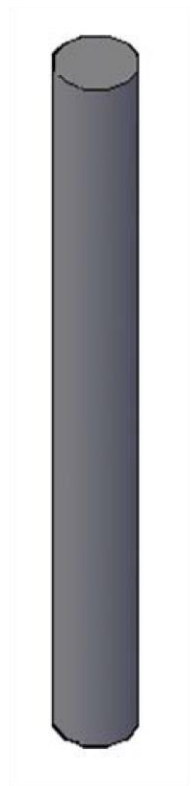
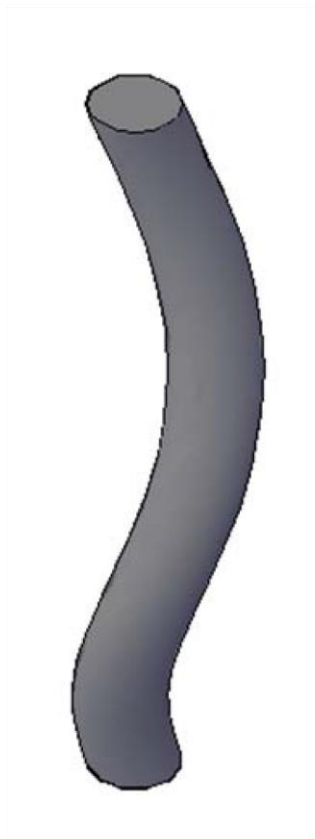
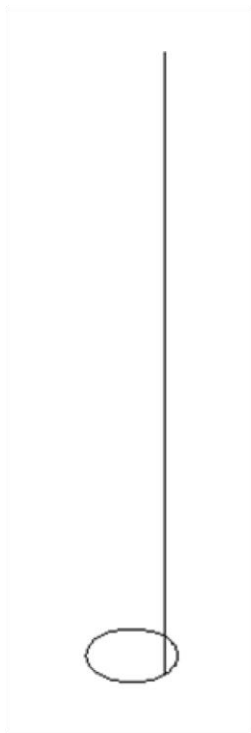
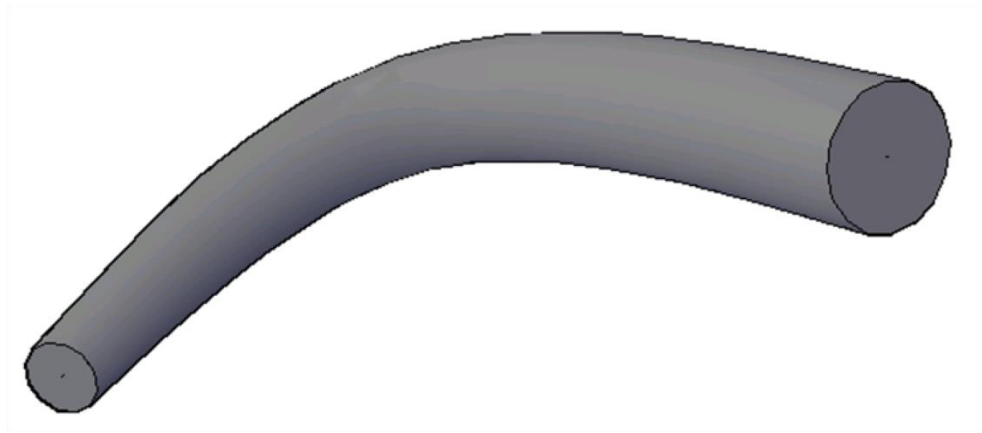
Elde edilen katı model



Elde edilen katı model

Sweep Süpürerek 3B Katı Oluşturma



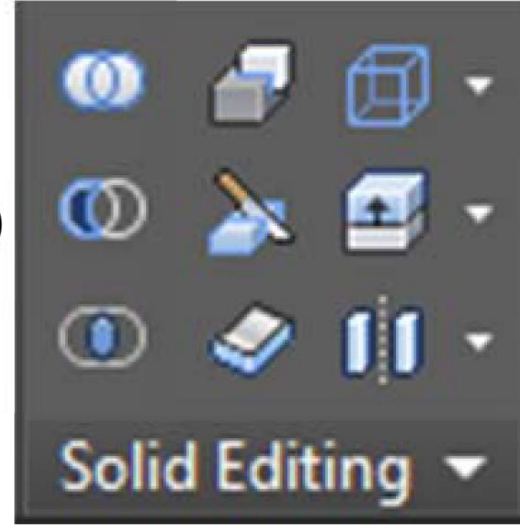


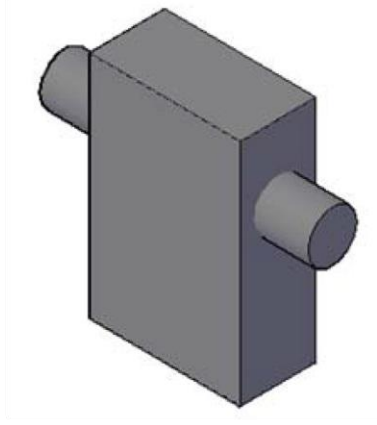
Birleşik Katılar Oluşturmak

Union (Birleştirme)

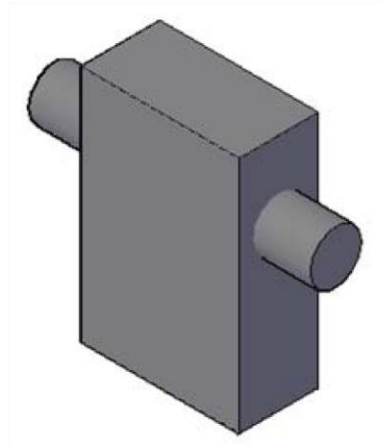
Subtract (Çıkartma)

Intersect (Kesişme)

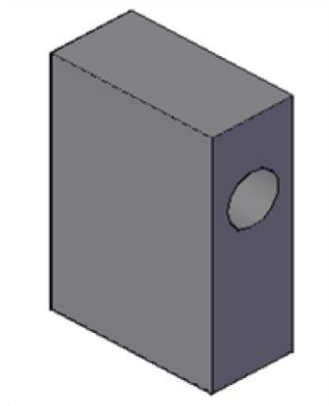




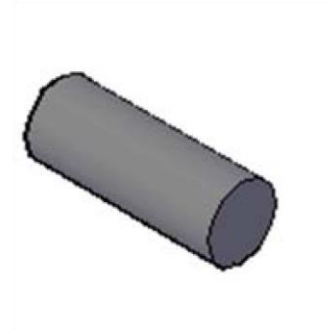
Kesişen silindir ve dikdörtgen katı model görüntüsü



Union



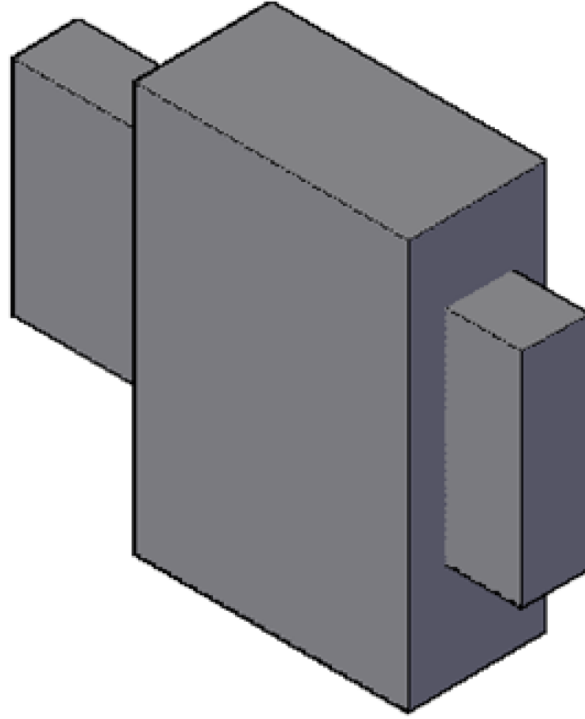
Subtract



Intersect

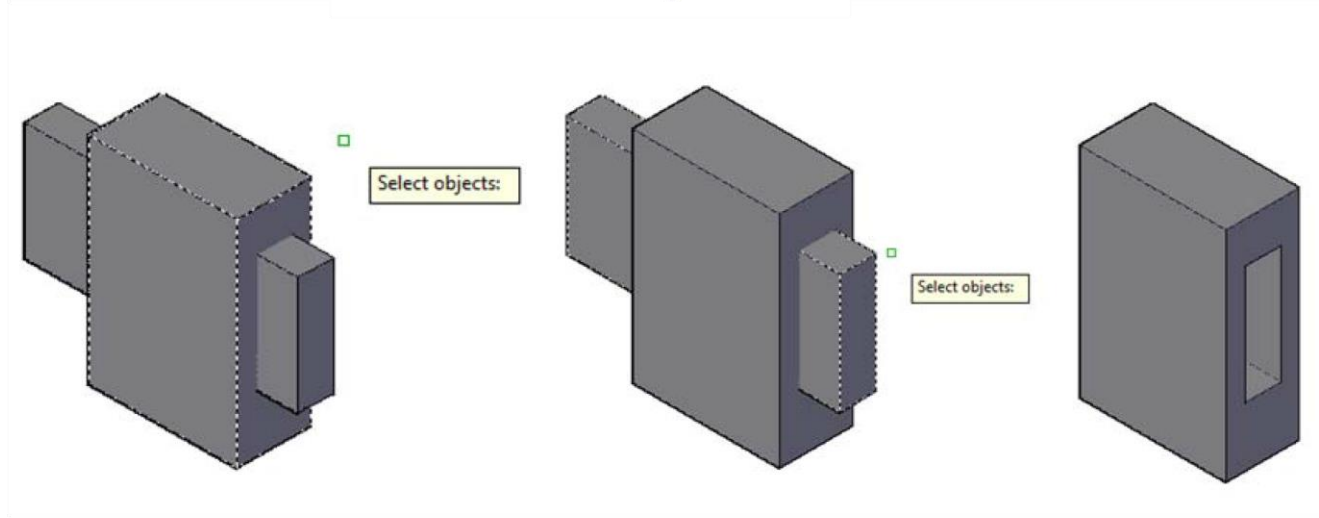
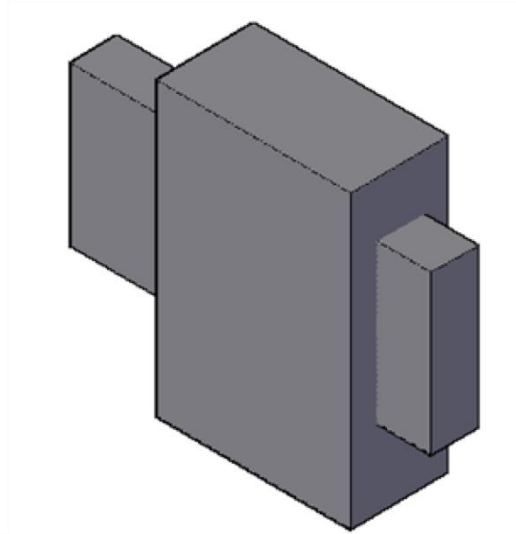
Birleştirme, çıkarma ve kesişim alma işlemleri sonucu oluşan model görüntüleri

Union (uni) Birleřtirme



Elde edilen model görüntüsü

Subtract (su) Çıkartma

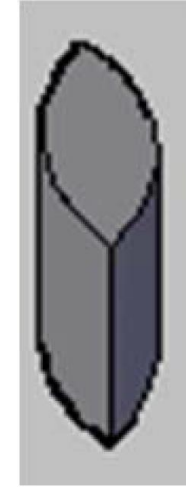
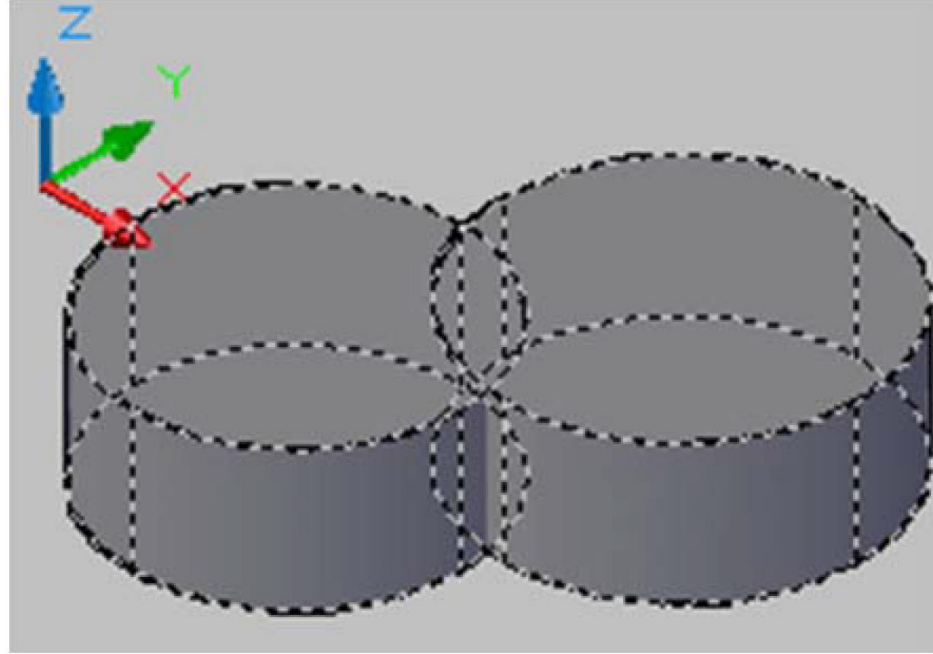


Ana nesnenin seçilmesi

Çıkacak nesnenin seçilmesi

Elde edilen
katı model

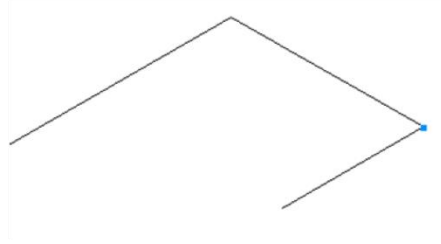
Intersect (in) Kesişme



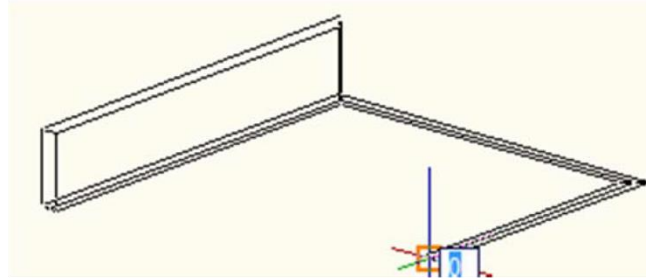
Kesişimleri alınacak nesnelerin seçilmesi

Elde edilen katı model

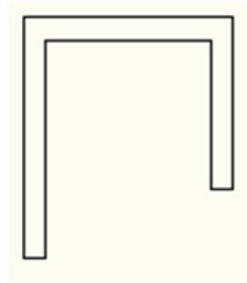
POLYSOLID Uzunluđu, Geniřliđi ve Yksekliđi Birlikte Verilerek Katı Model Oluřturma



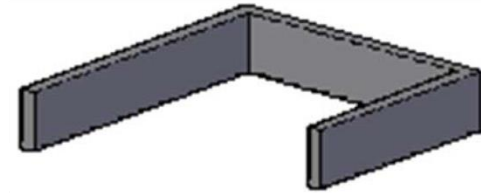
Polyline ile izilmiř 2B'lu taslak izim



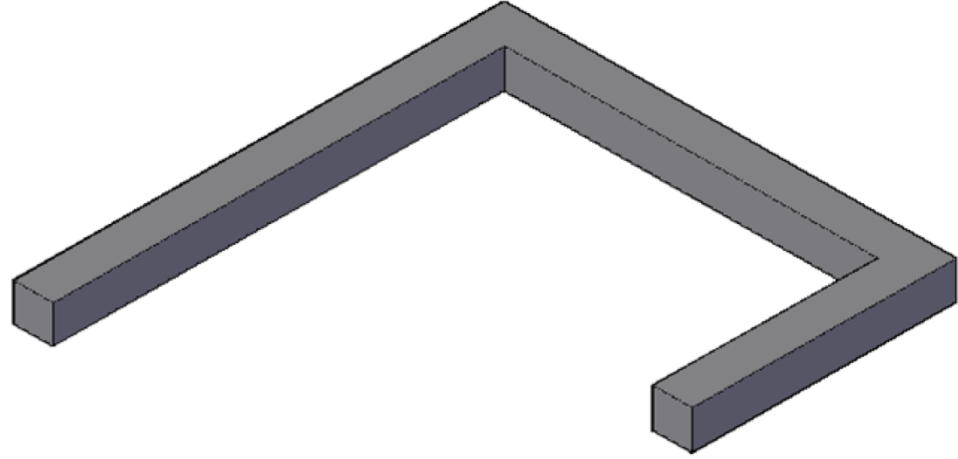
Her kře noktasının seimi yapılır.



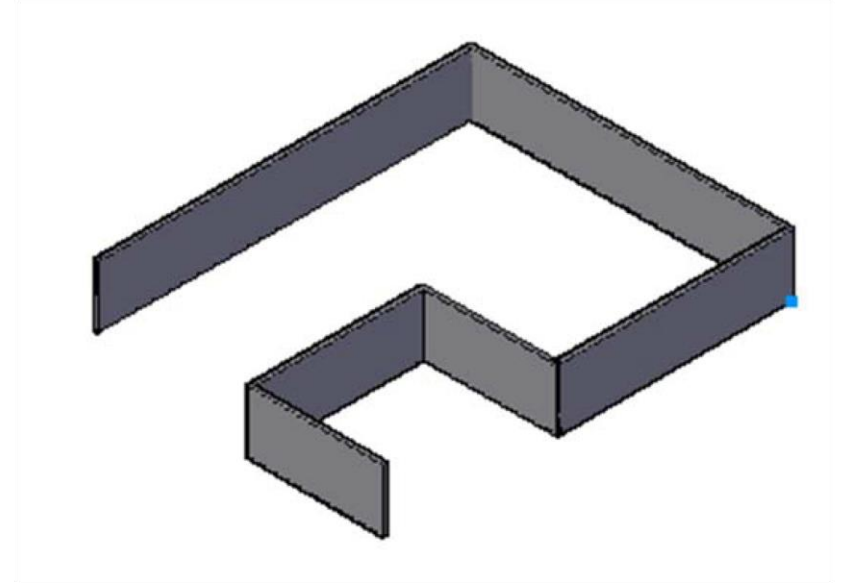
stten bakıř ile plan grnř



Elde edilen katı model



Yukarıdaki işlemler sonucunda elde edilen katı model

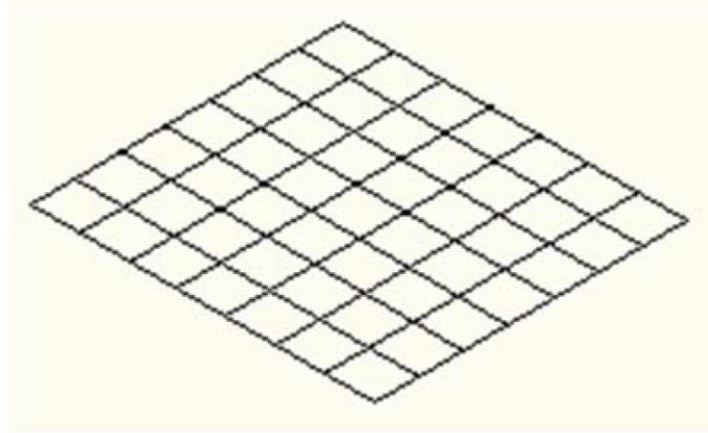


Yukarıda işlemler sonucunda elde edilen katı model

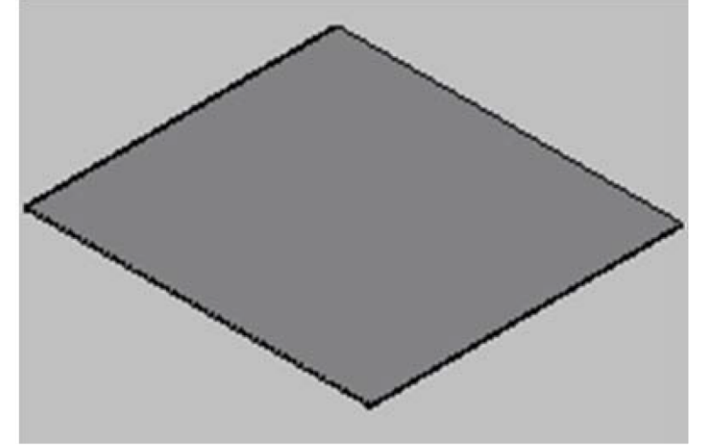
Planar Surface Düzlem Yüzey Oluşturma



2B kapalı yüzey



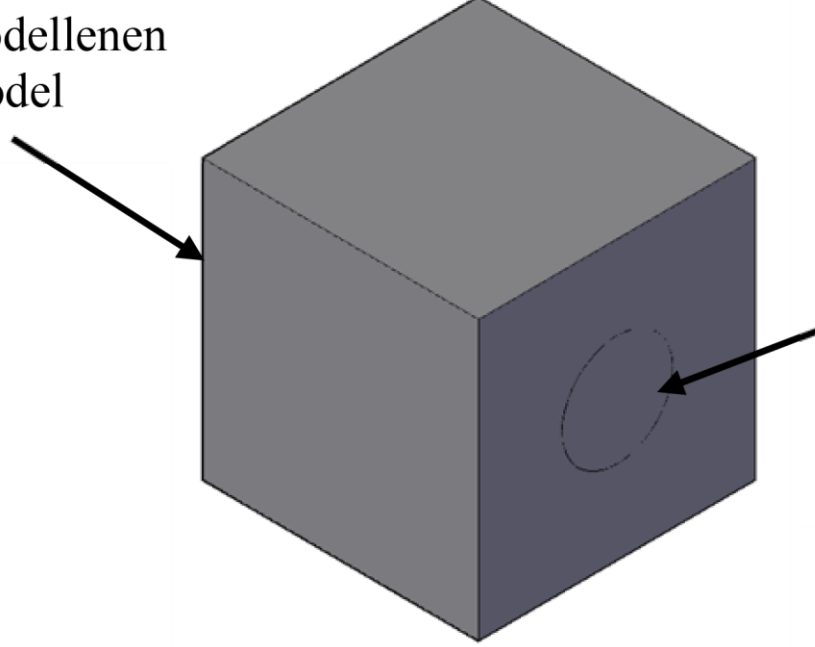
Kapalı yüzeye planar surface komutunun uygulanmış hali



Elde edilen katı model

PRESS\PULL Modellenmiş 3B Katı Model Üzerine Pres (İtme) veya Pull (Çekme) Seçenekleri İle Yeni Katı Model Oluşturma

Önceden modellenen
katı model



Çıkarılacak veya
ekleme yapılacak
modelin 2B'lu yüzeyi

