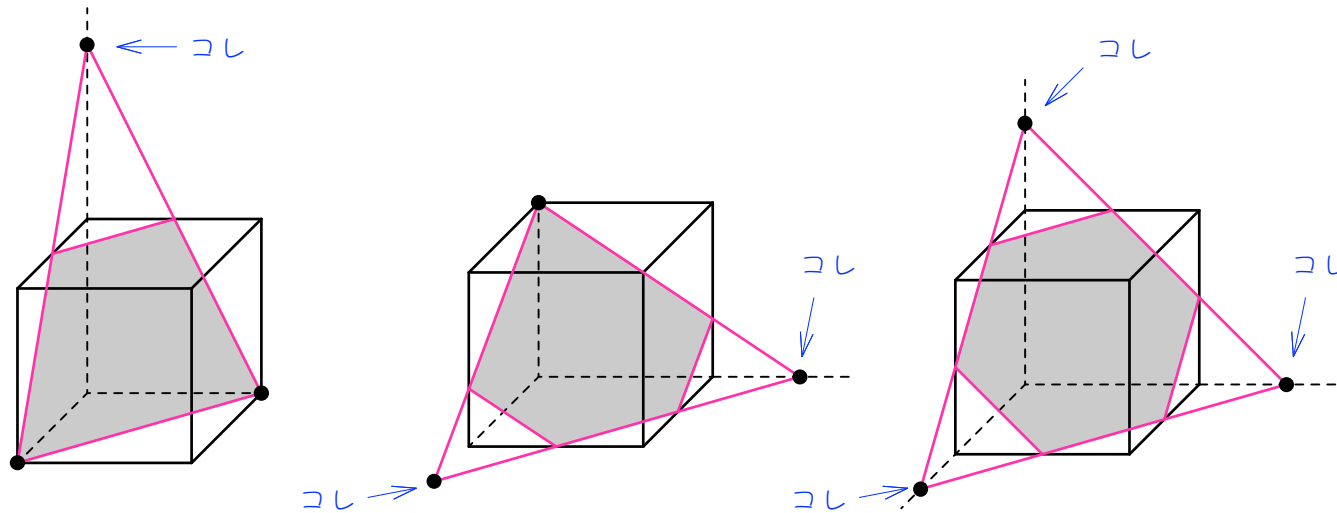


切り口の作図の大前提

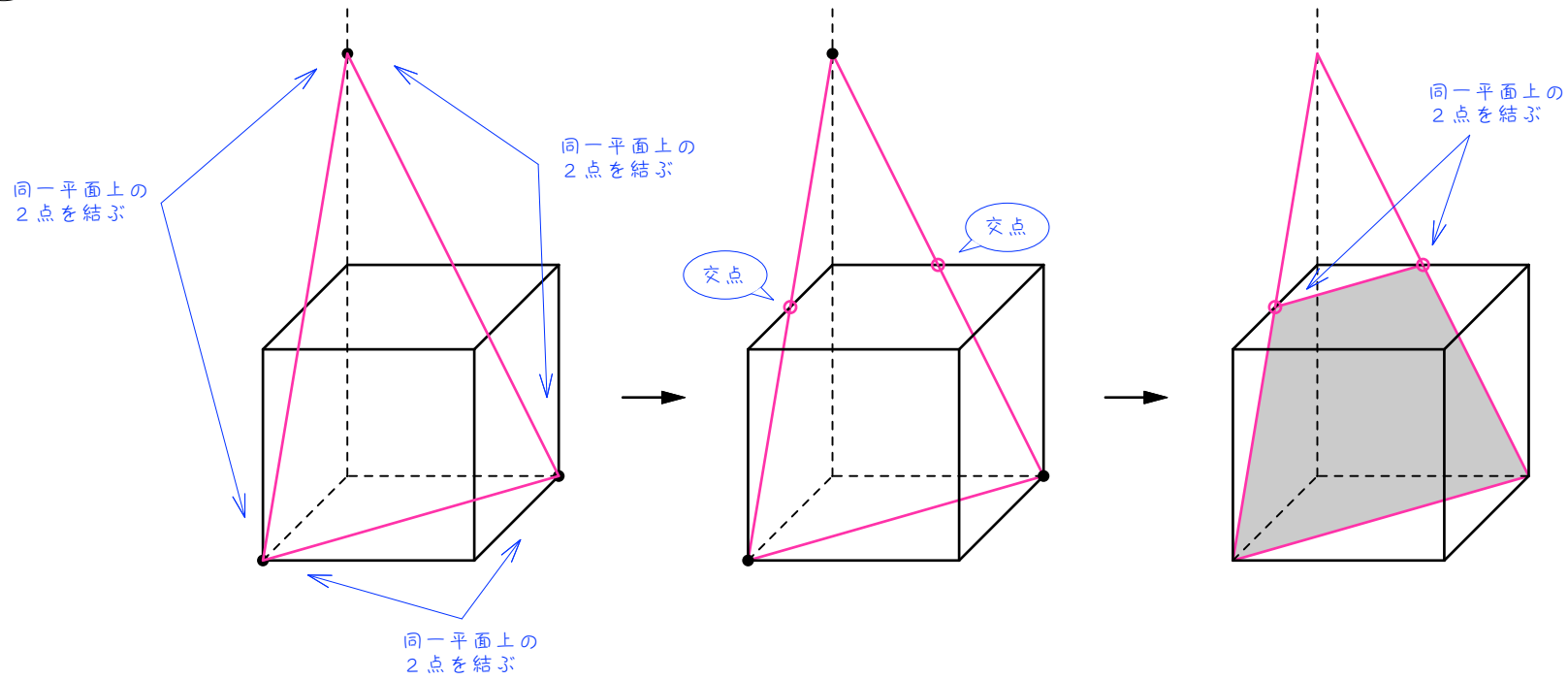


切り口が五角形や六角形、一部の四角形になる場合、**立方体の外の点**を通る平面で立方体を切った、と考えることができます。

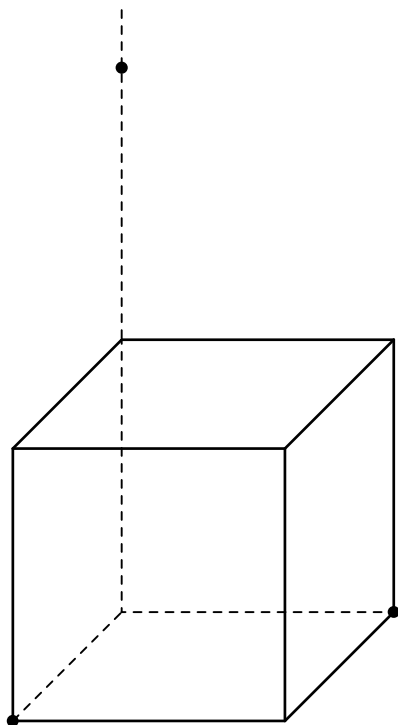
I

例にならって、●を通る平面で立方体を切断したときの切り口を作図しなさい。

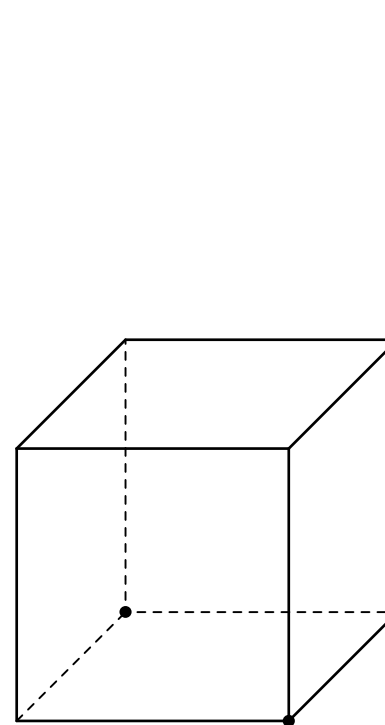
例



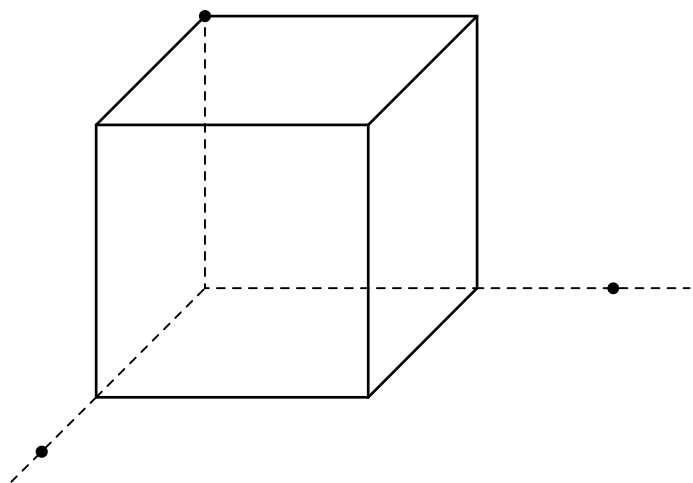
(1)



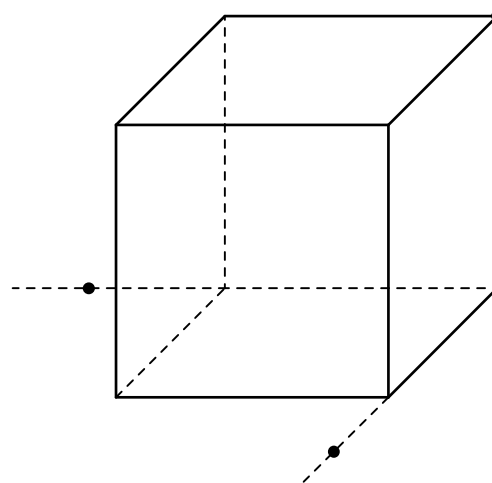
(2)



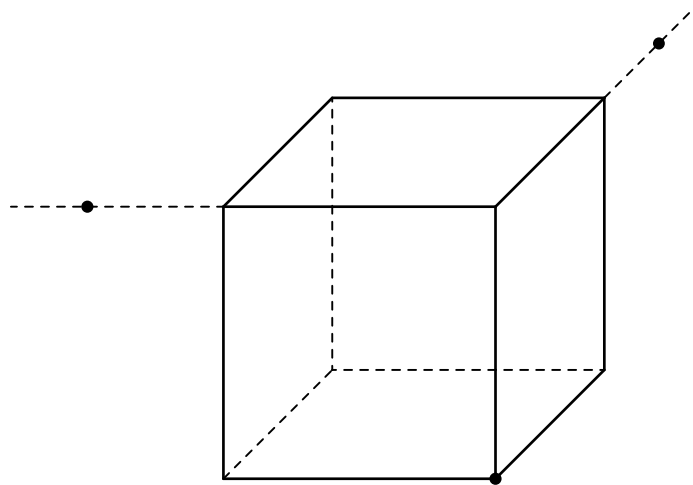
(3)



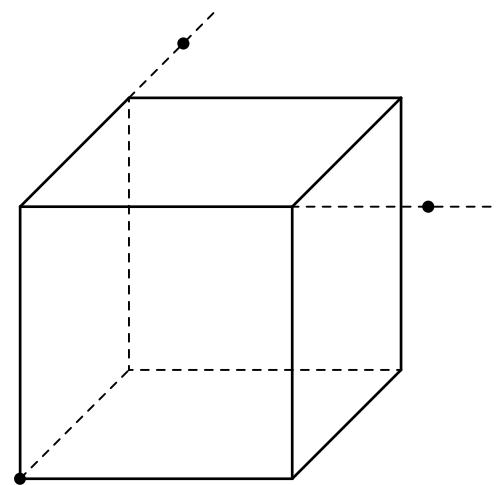
(4)



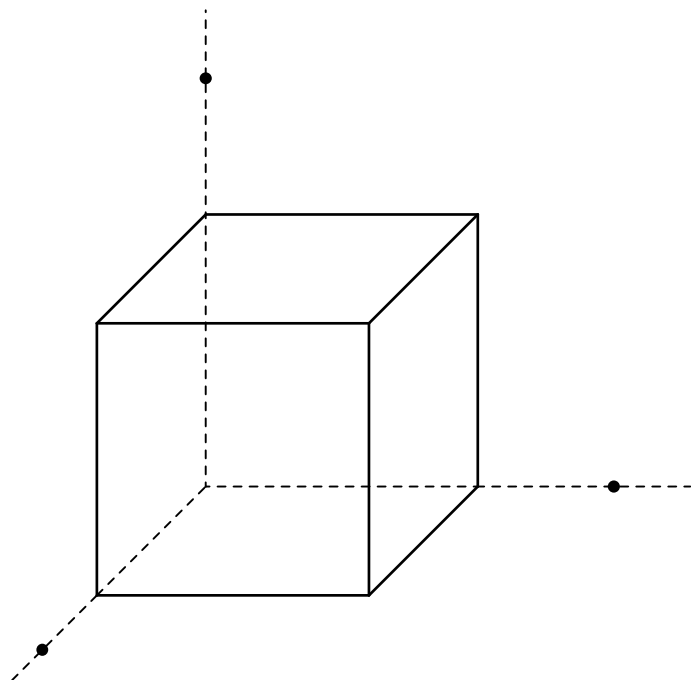
(5)



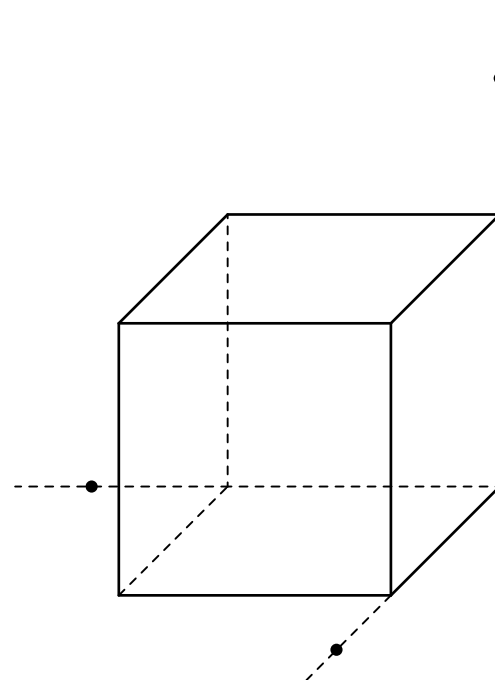
(6)



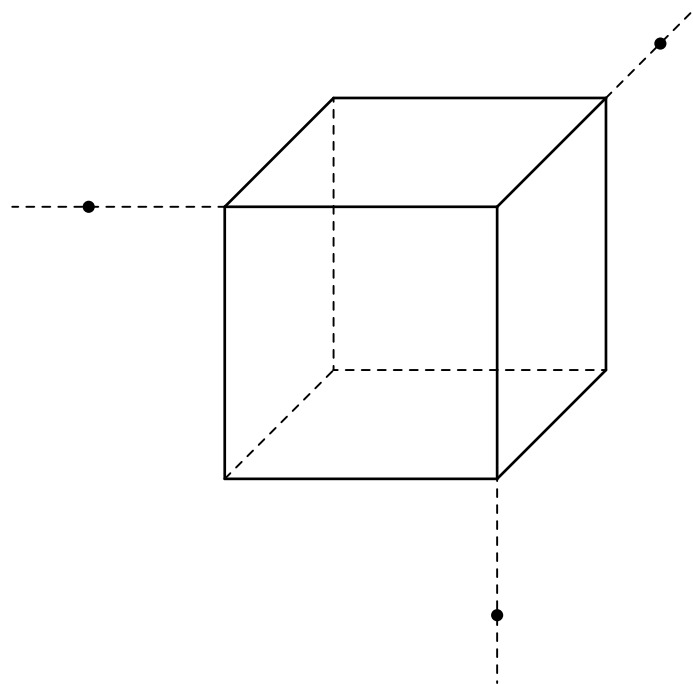
(7)



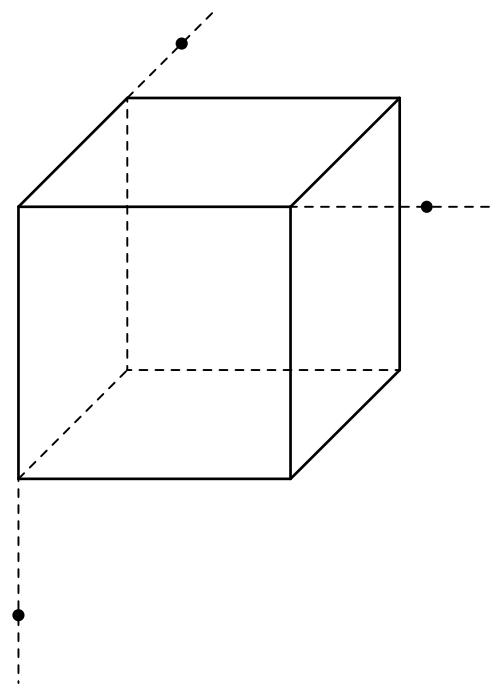
(8)



(9)



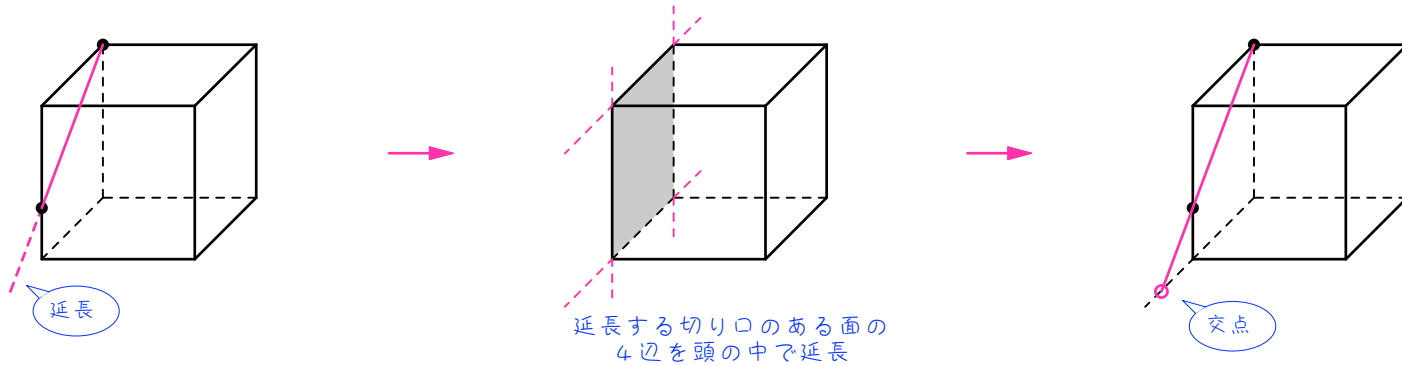
(10)



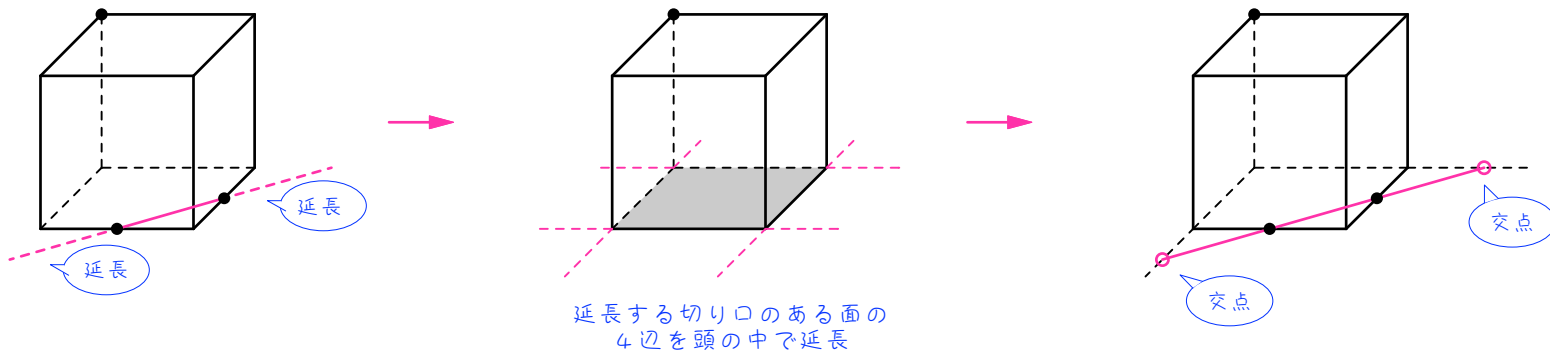
切り口の作図のポイント③

「延長」 : 切り口の1辺と、切り口のある面の4つの辺を延長し、その交点を利用する。

ケース1



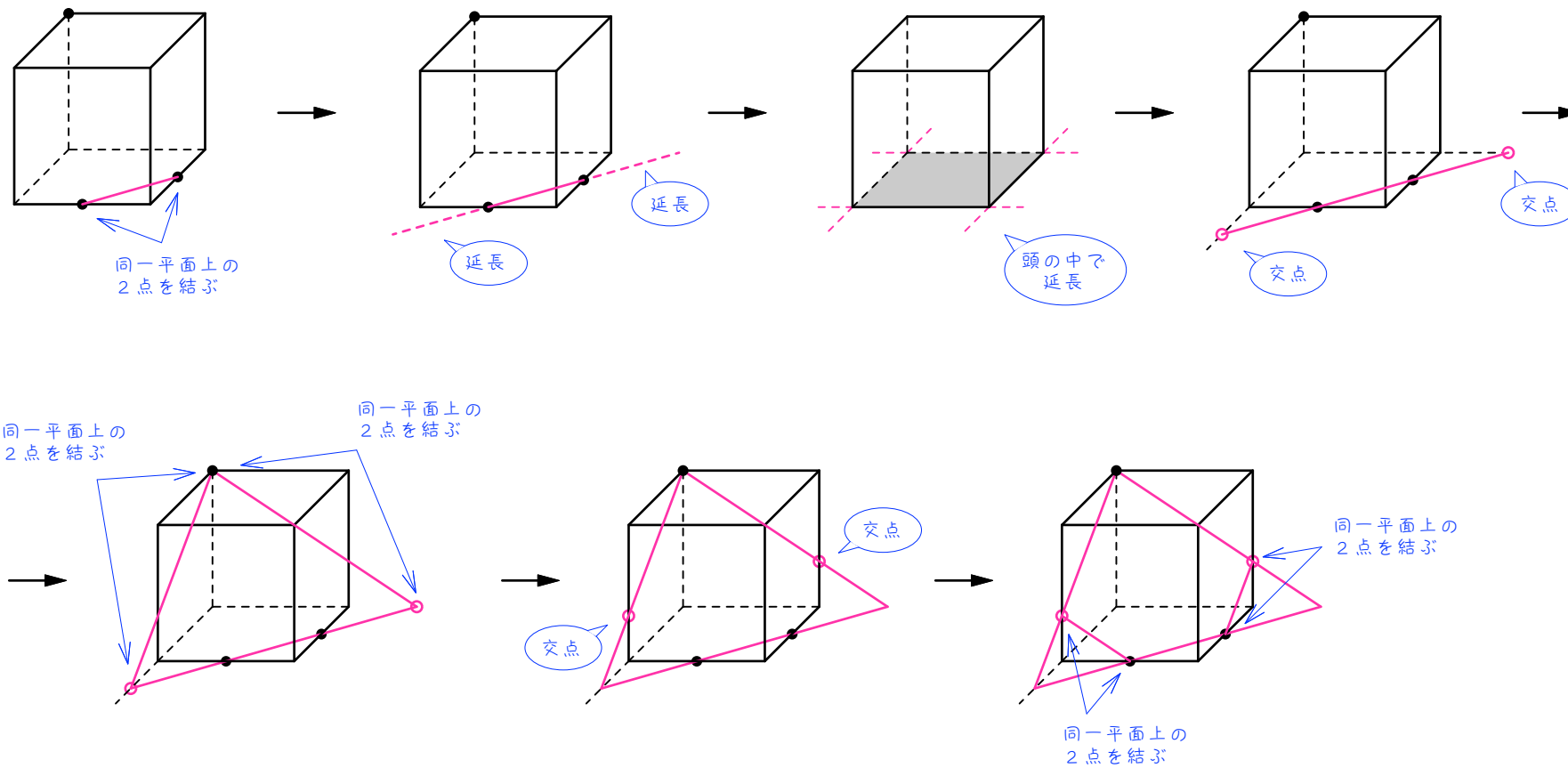
ケース2



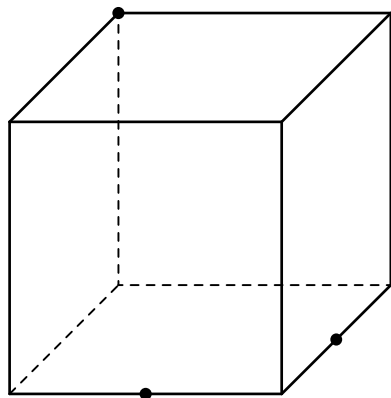
2

例にならって、●を通る平面で立方体を切断したときの切り口を作図しなさい。

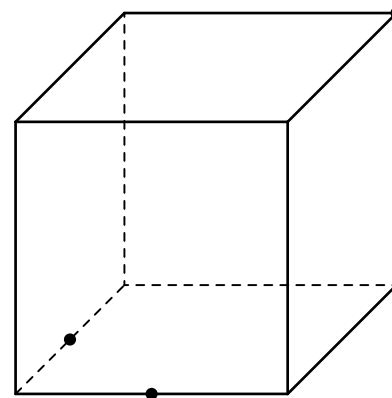
例



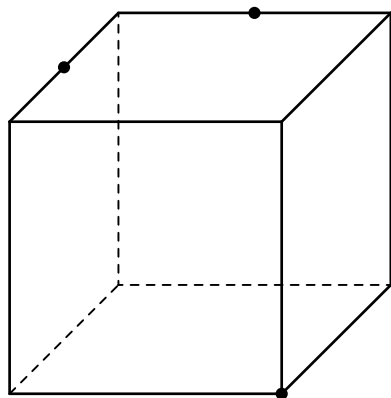
(1)



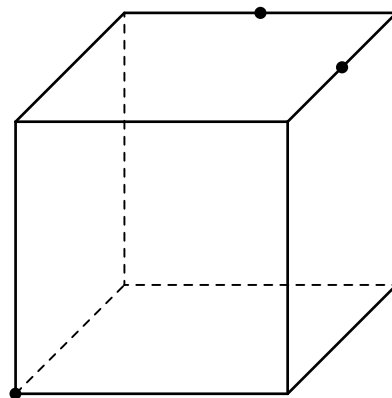
(2)



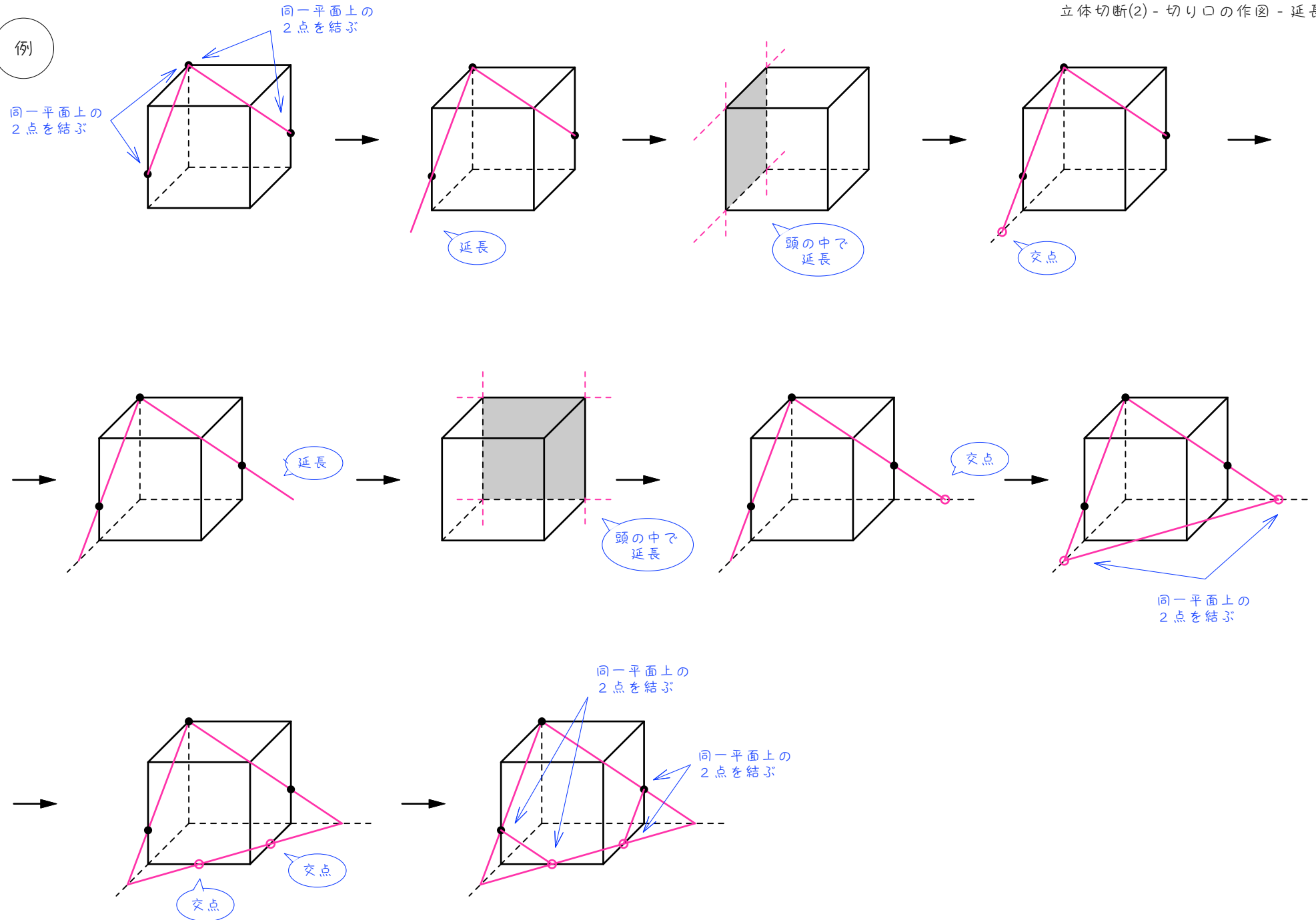
(3)



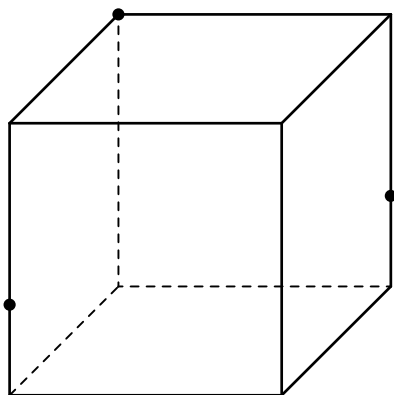
(4)



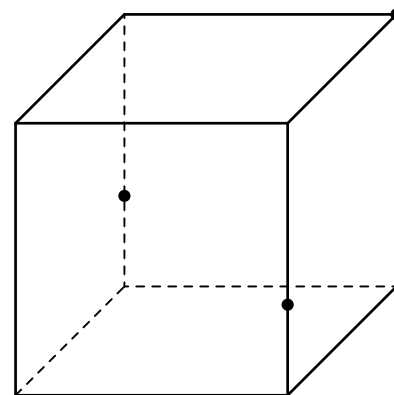
例



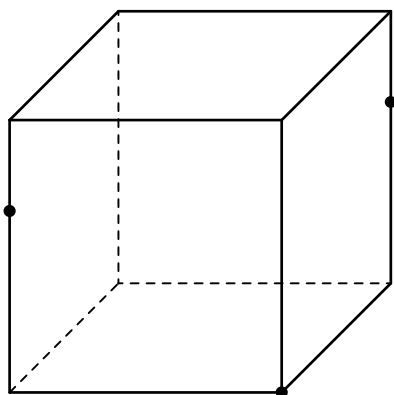
(5)



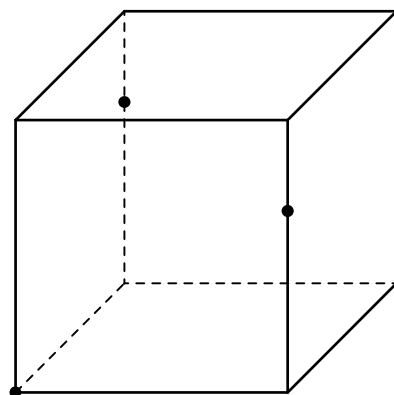
(6)



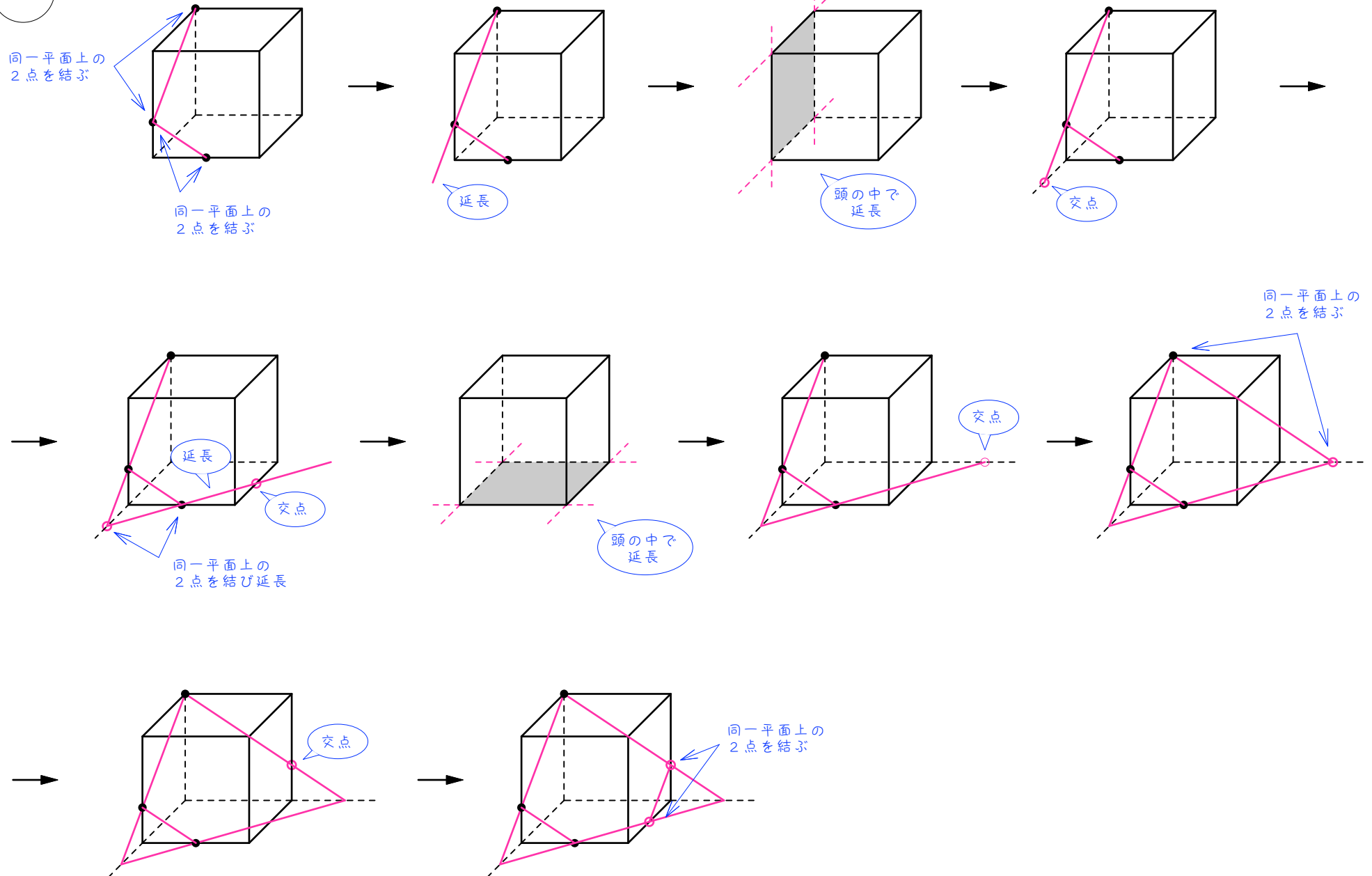
(7)



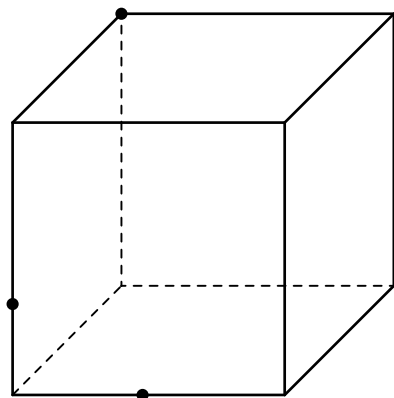
(8)



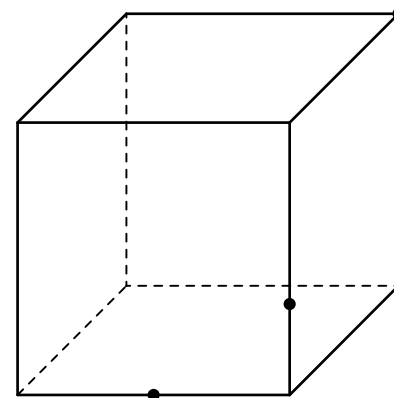
例



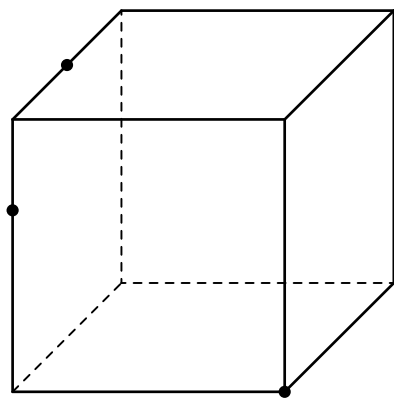
(9)



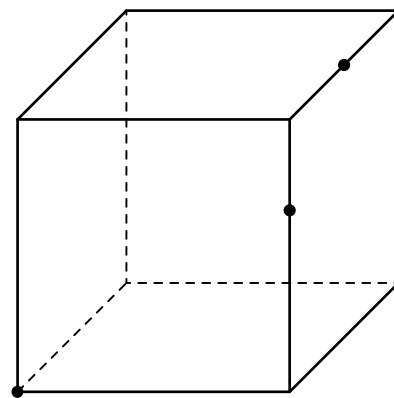
(10)



(11)

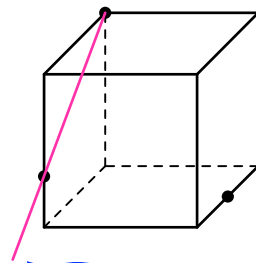
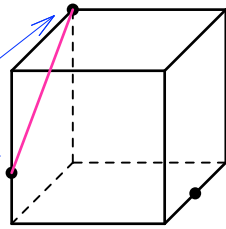


(12)

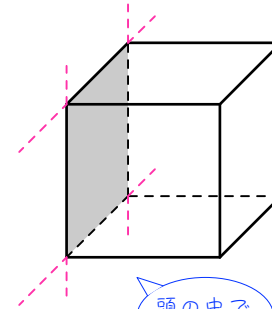


例

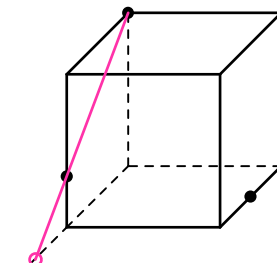
同一平面上の
2点を結ぶ



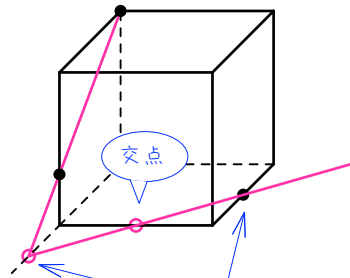
延長



頭の中で
延長

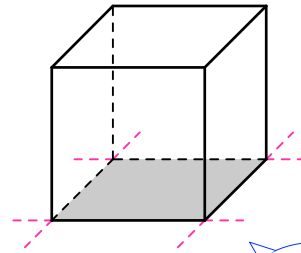


交点

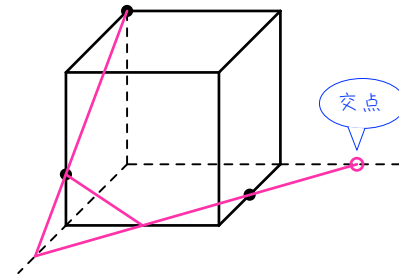


交点

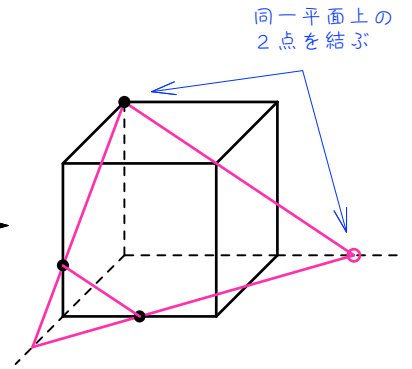
同一平面上の
2点を結び延長



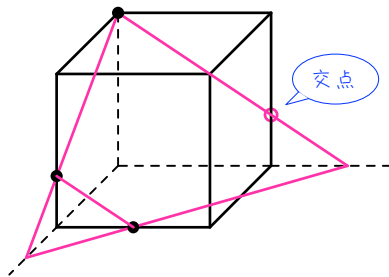
頭の中で
延長



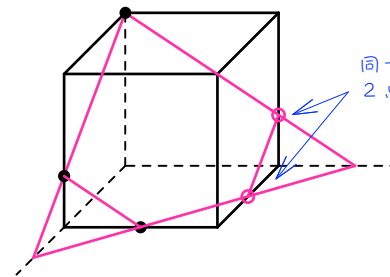
交点



同一平面上の
2点を結ぶ

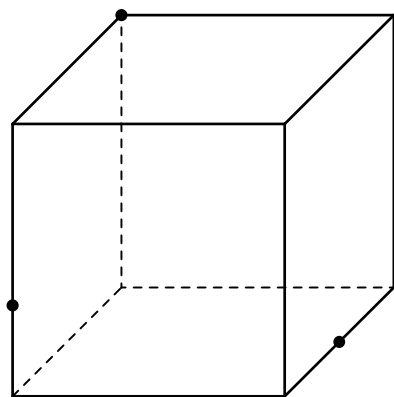


交点

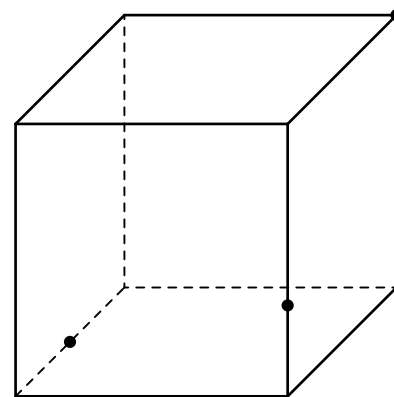


同一平面上の
2点を結ぶ

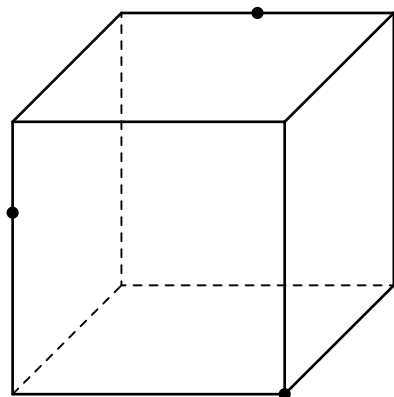
(13)



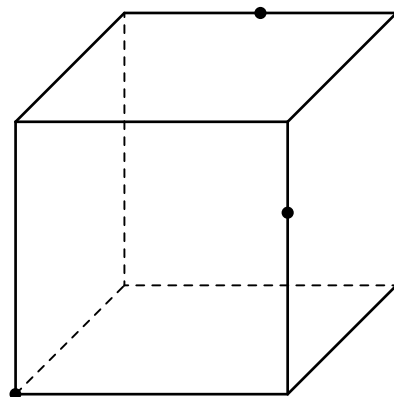
(14)



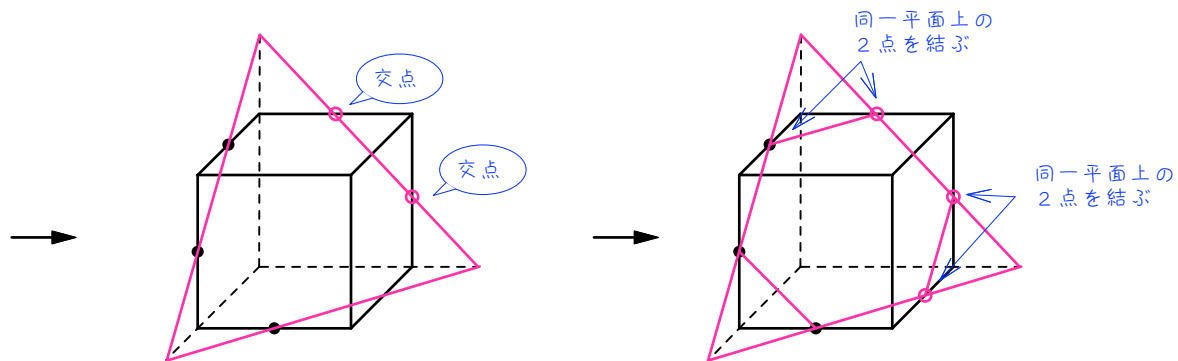
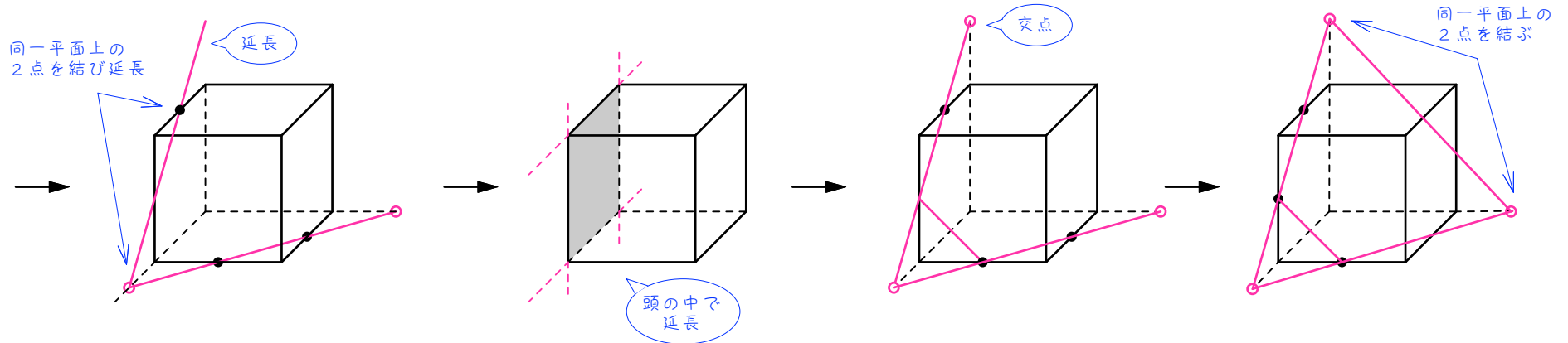
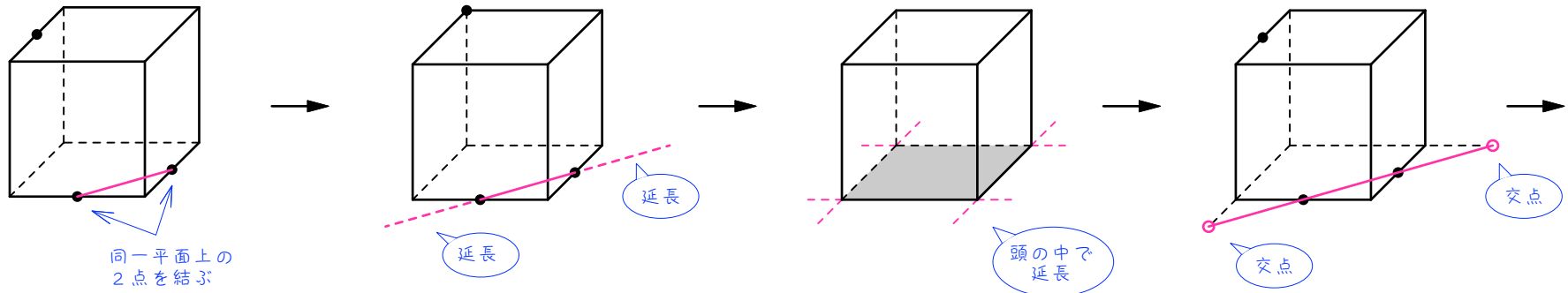
(15)



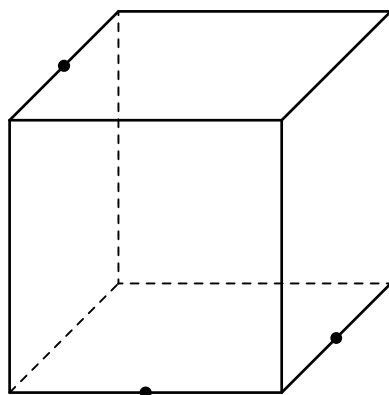
(16)



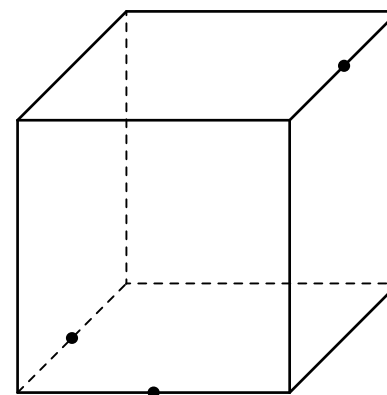
例



(17)



(18)



例

同一平面上の
2点を結ぶ

同一平面上の
2点を結ぶ

延長

延長

頭の中で
延長

交点

交点

延長

交点

同一平面上の
2点を結び延長

頭の中で
延長

交点

同一平面上の
2点を結ぶ

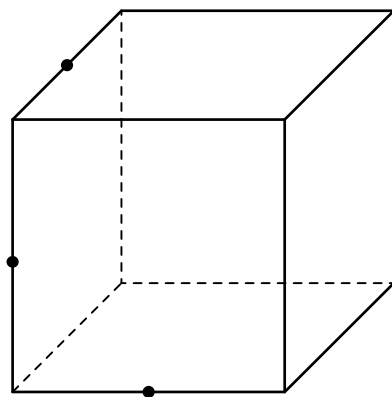
同一平面上の
2点を結ぶ

交点

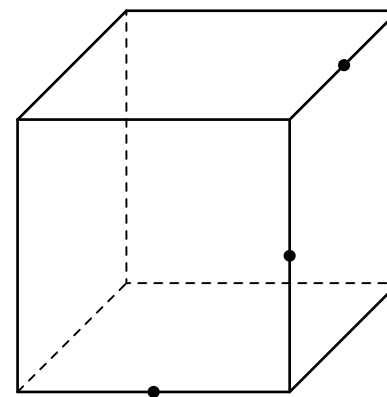
交点

同一平面上の
2点を結ぶ

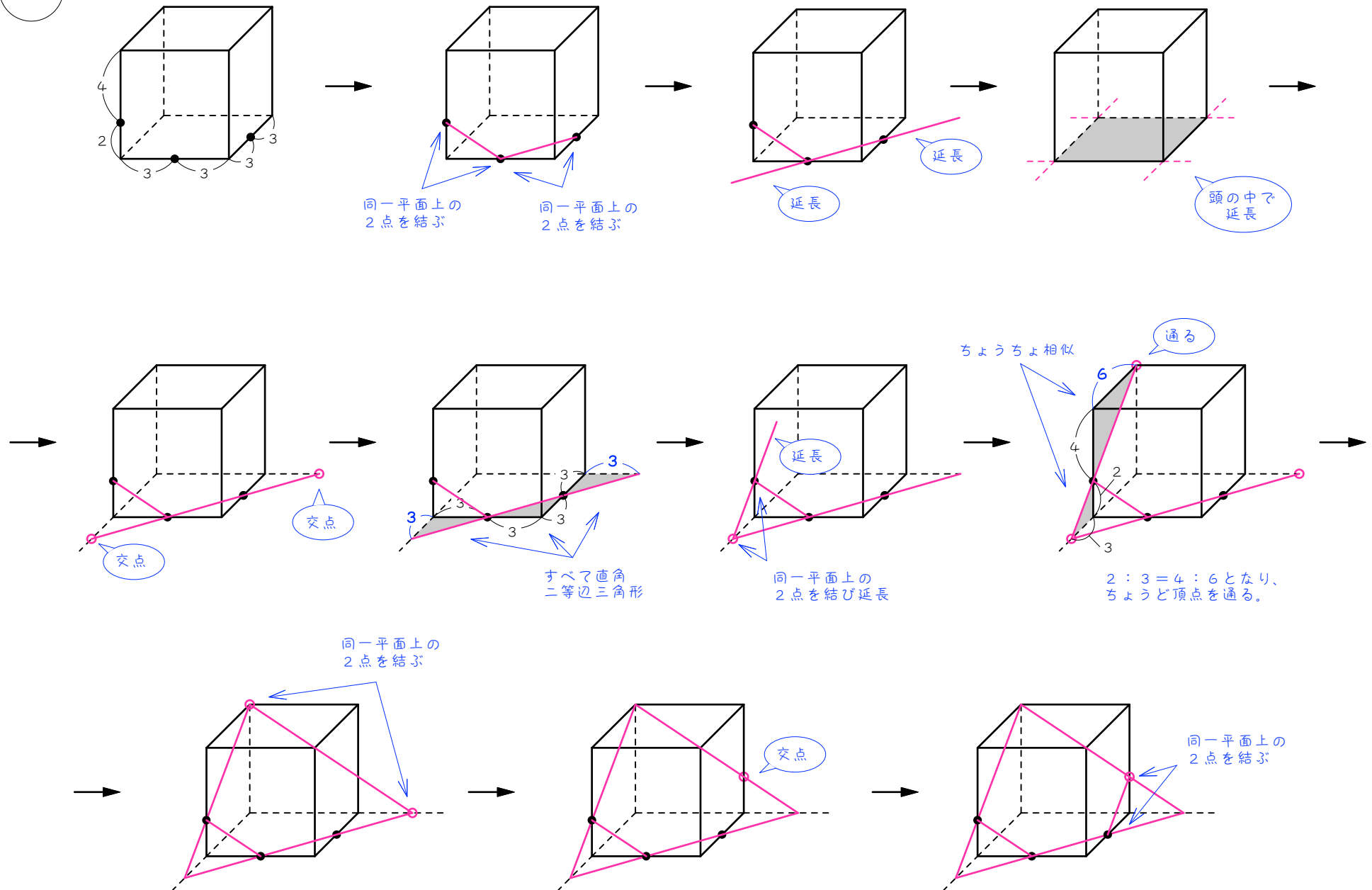
(19)



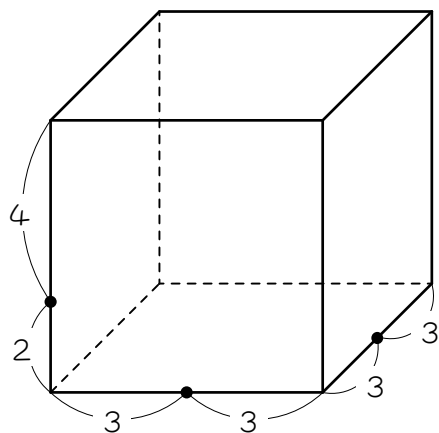
(20)



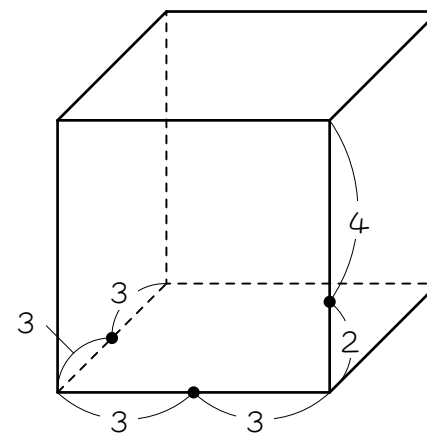
例 ☆



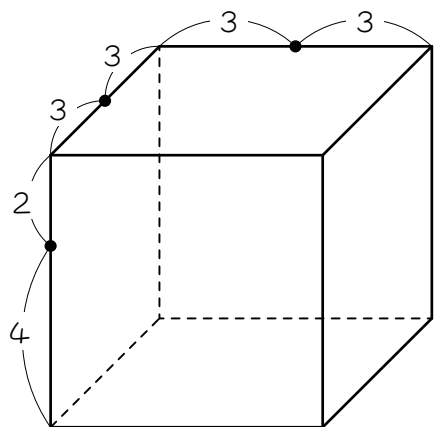
(21)



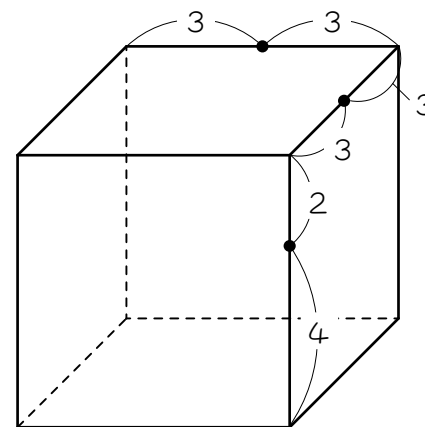
(22)



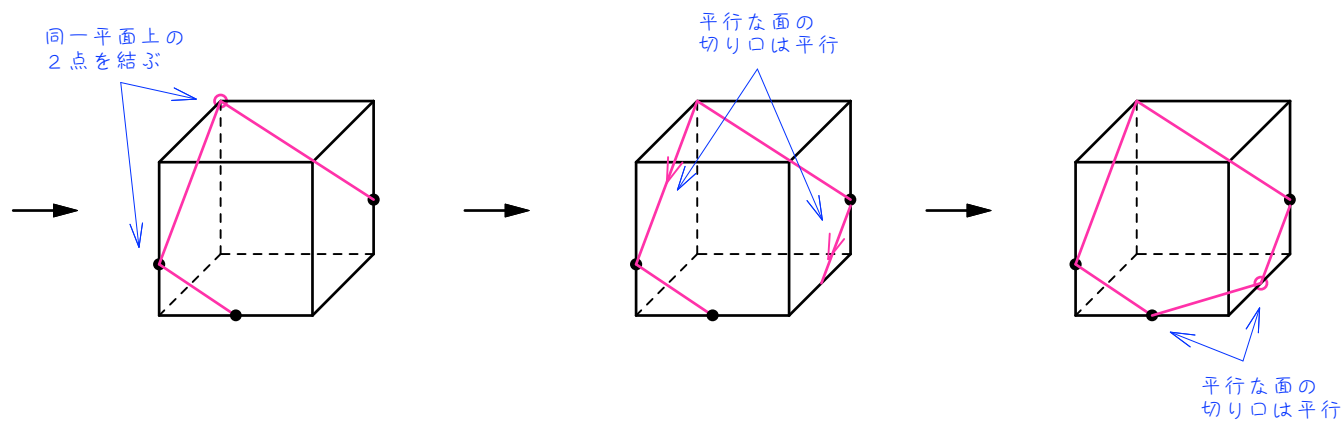
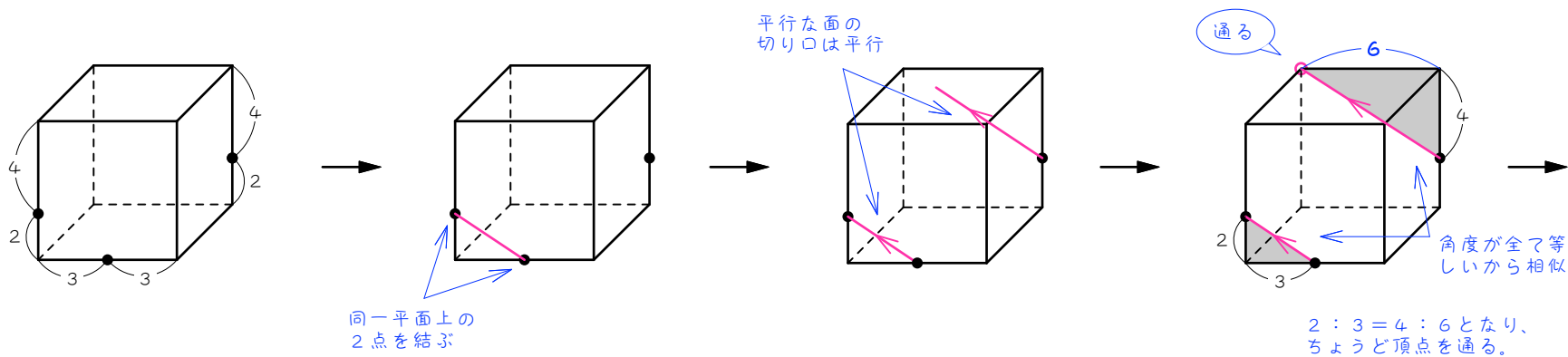
(23)



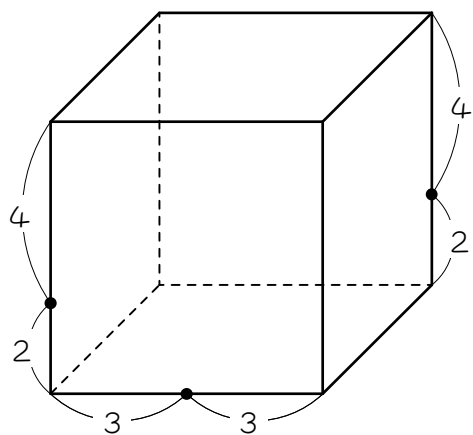
(24)



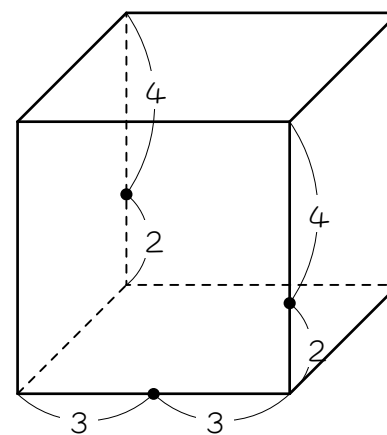
例 ☆



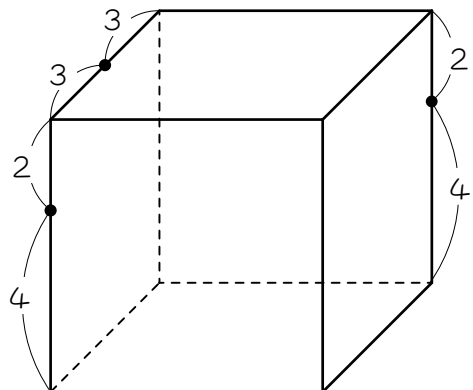
(25)



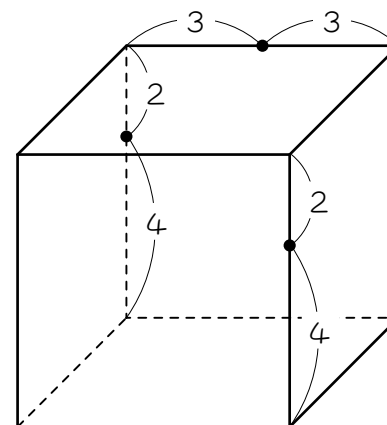
(26)



(27)



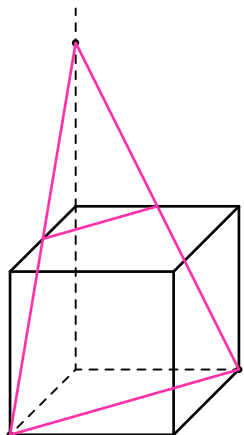
(28)



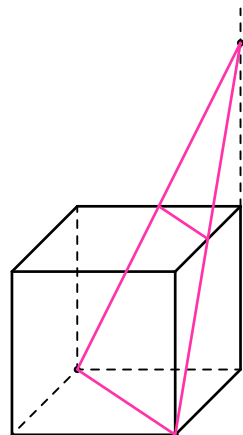
(解答)



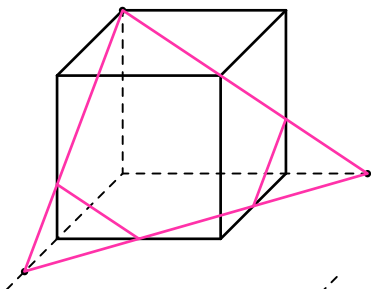
(1)



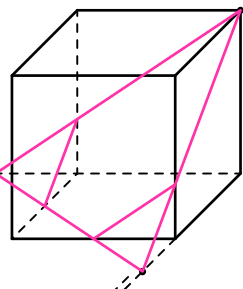
(2)



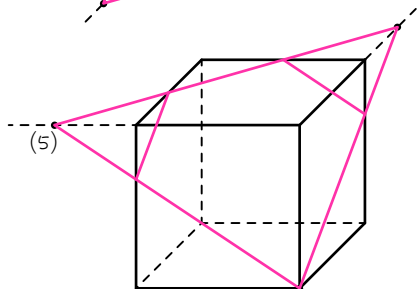
(3)



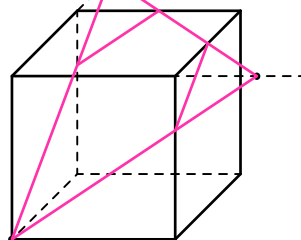
(4)



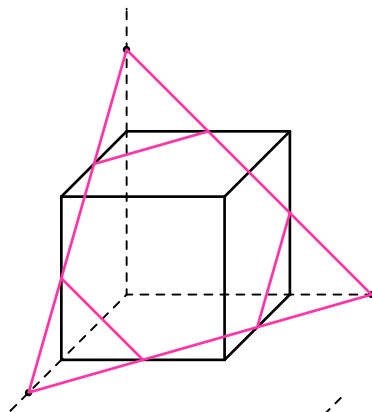
(5)



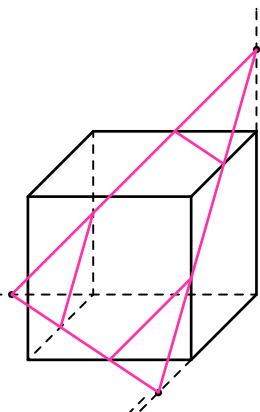
(6)



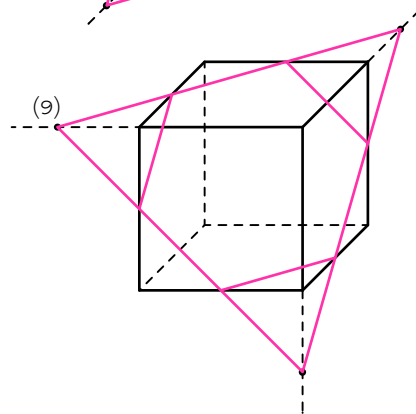
(7)



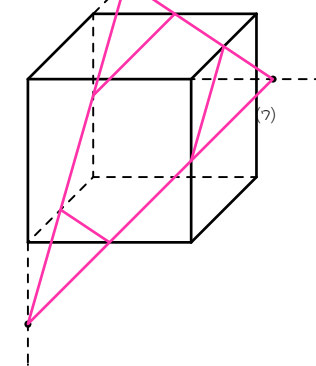
(8)



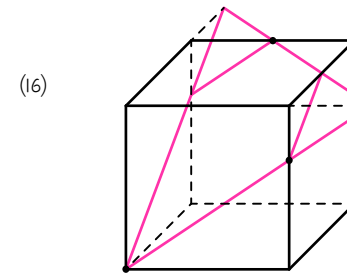
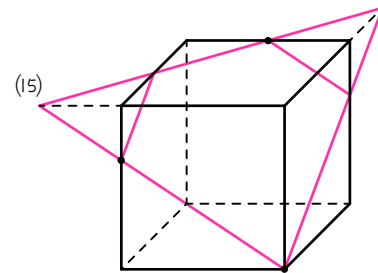
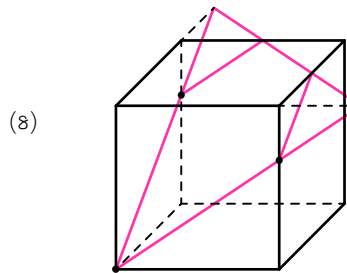
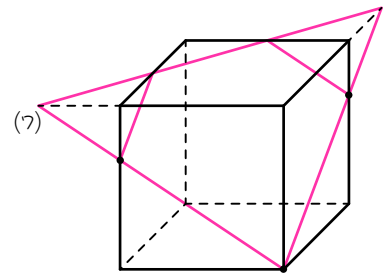
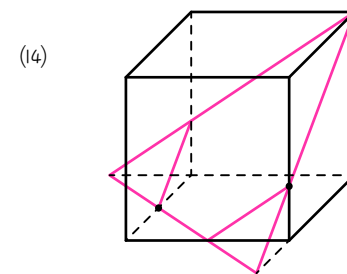
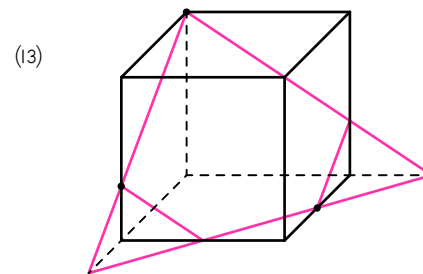
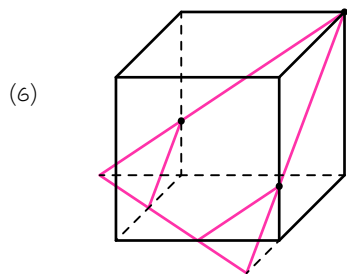
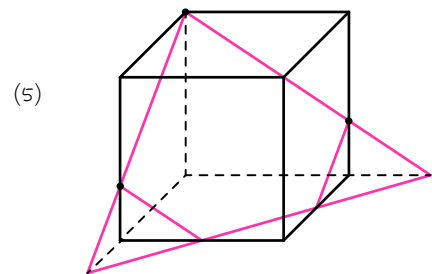
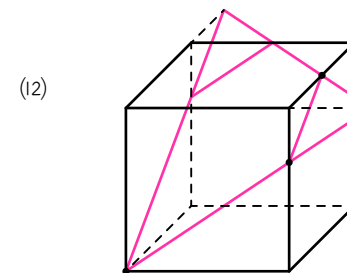
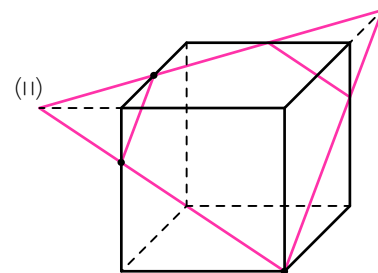
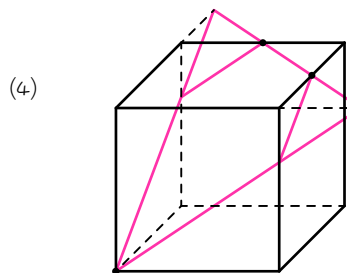
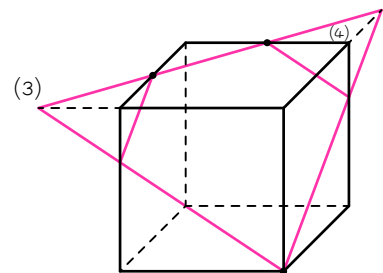
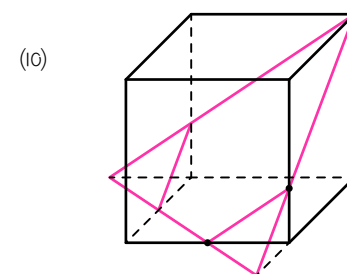
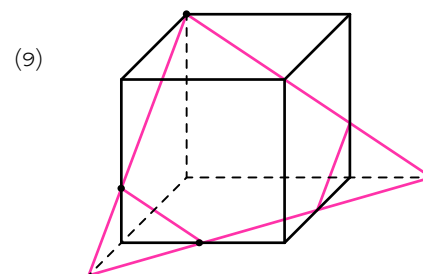
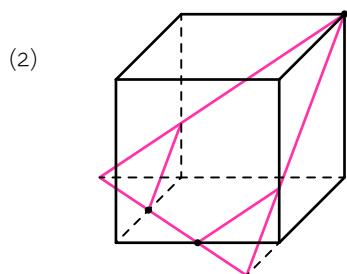
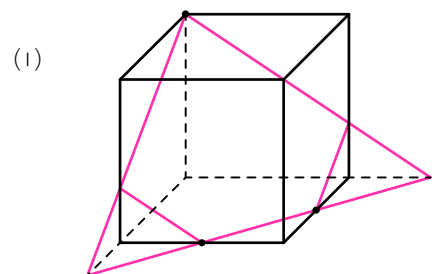
(9)



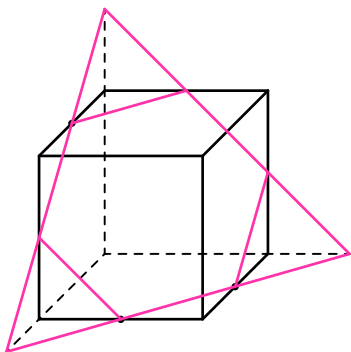
(10)



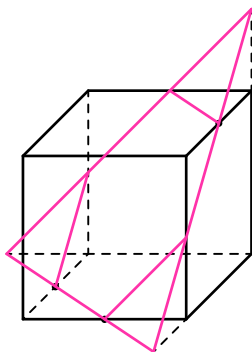
2



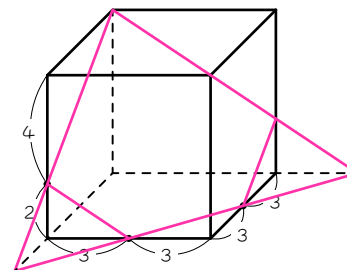
(17)



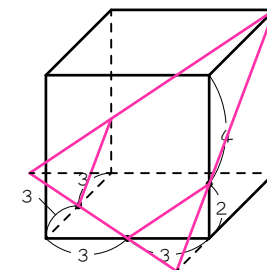
(18)



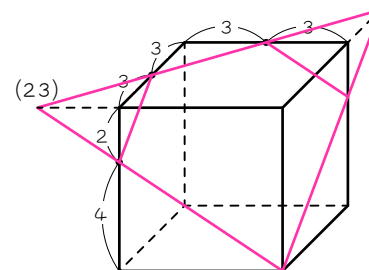
(21)



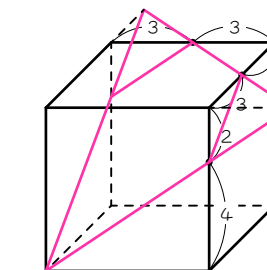
(22)



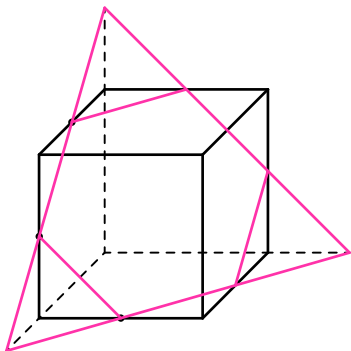
(23)



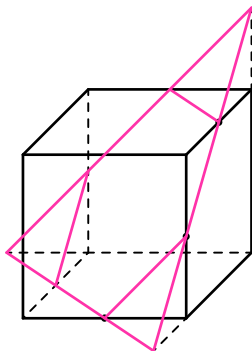
(24)



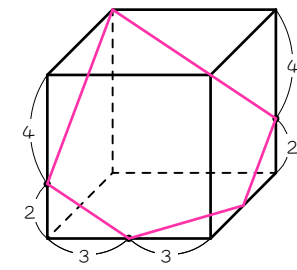
(19)



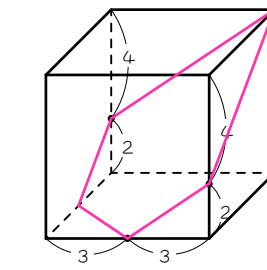
(20)



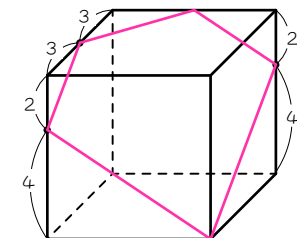
(25)



(26)



(27)



(28)

