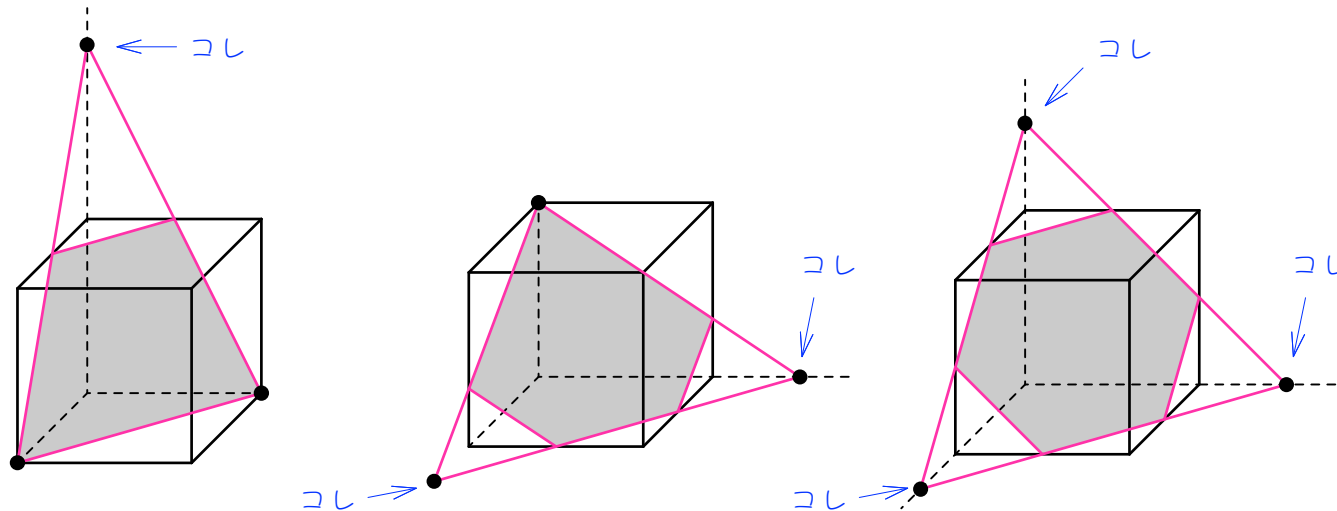


切り口の作図の大前提

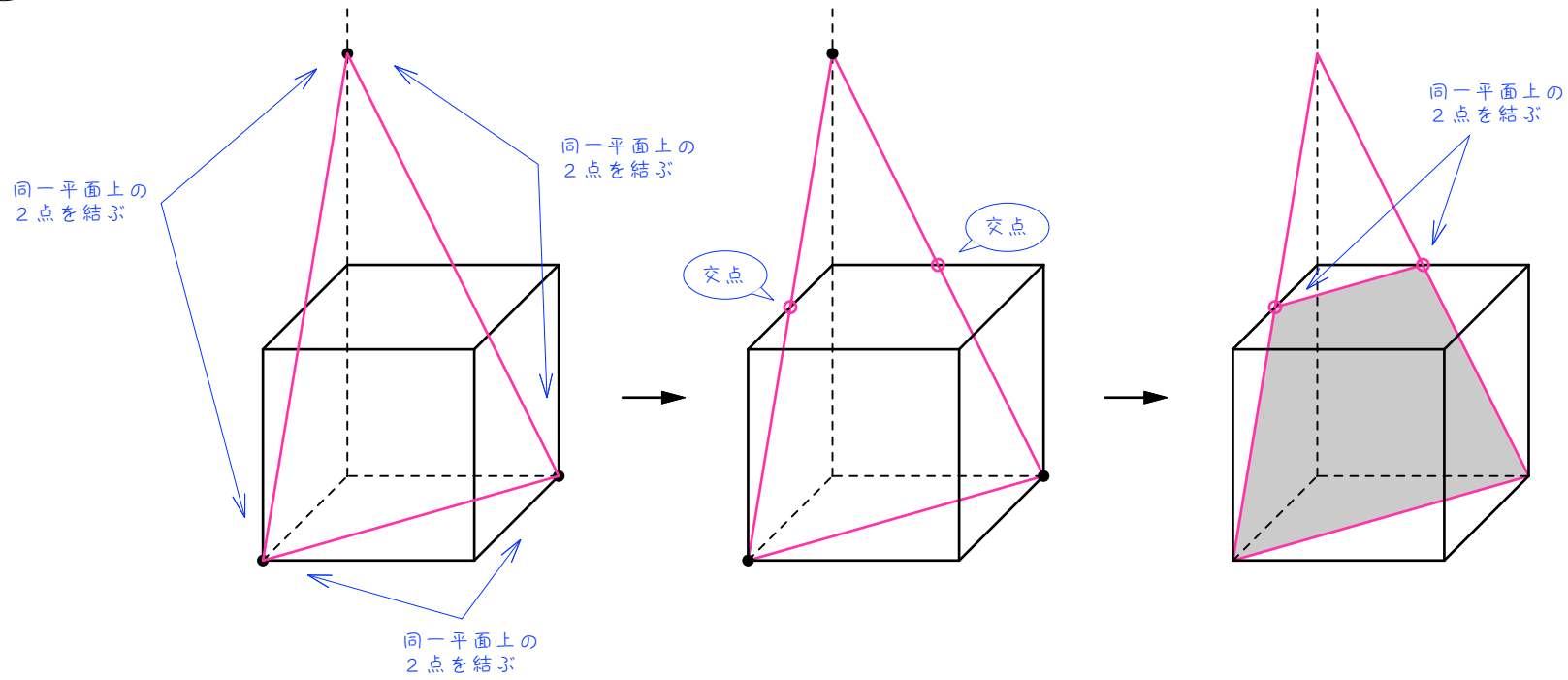


切り口が五角形や六角形、一部の四角形になる場合、**立方体の外の点**を通る平面で立方体を切った、と考えることができます。

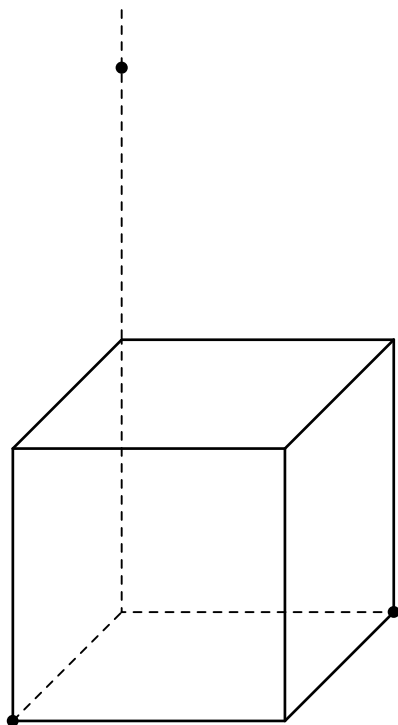
I

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。

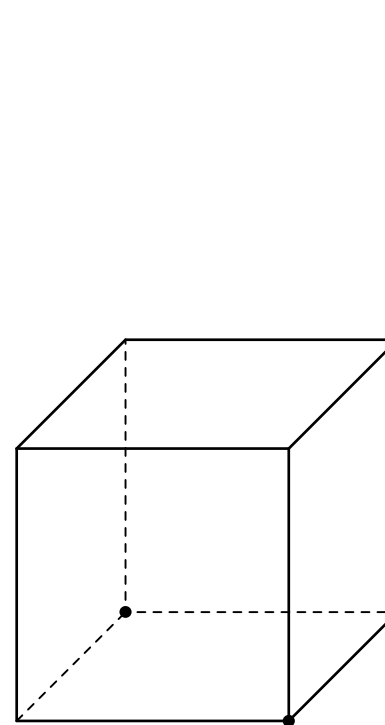
例



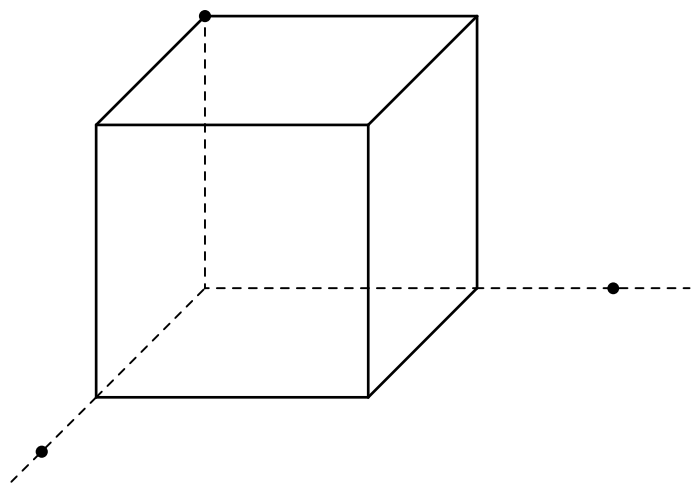
(1)



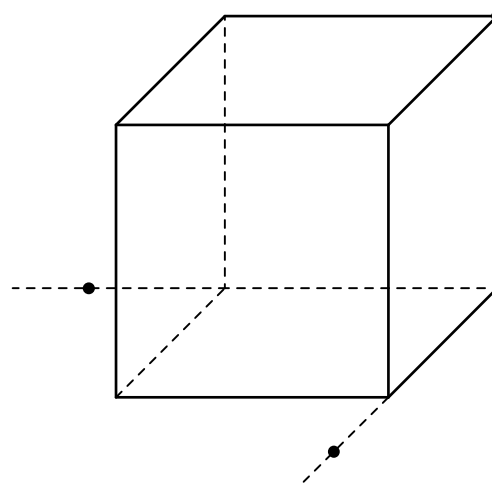
(2)



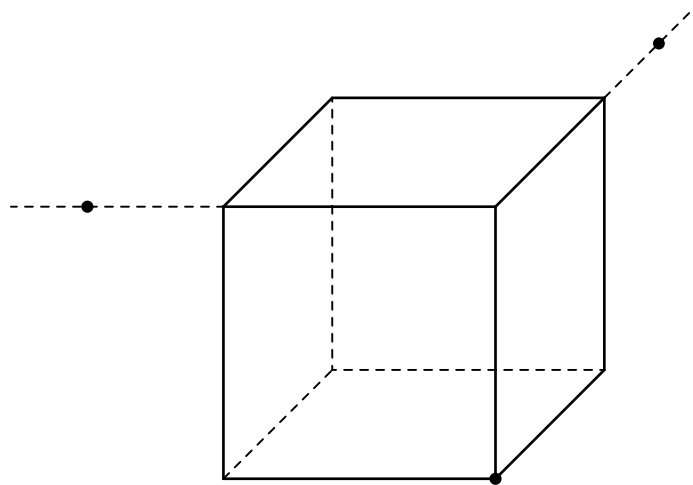
(3)



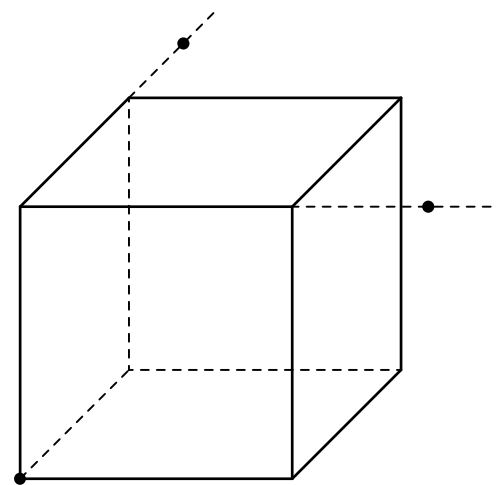
(4)



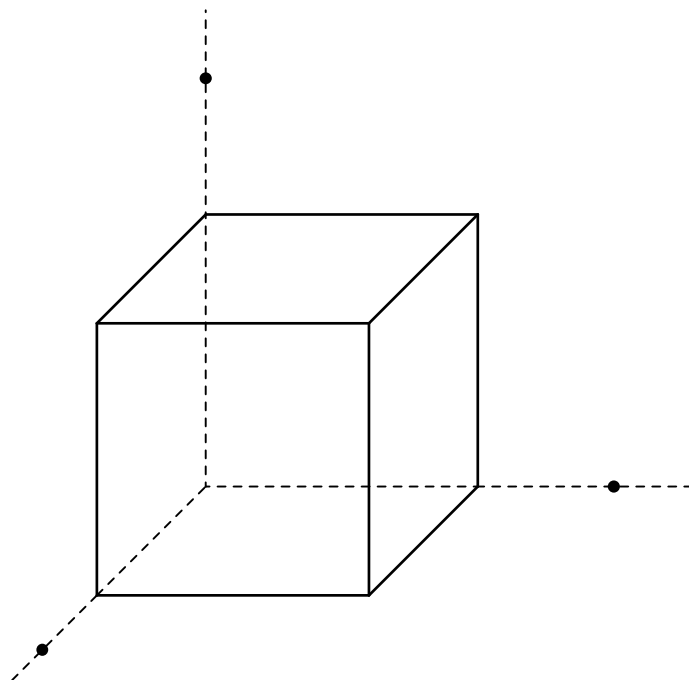
(5)



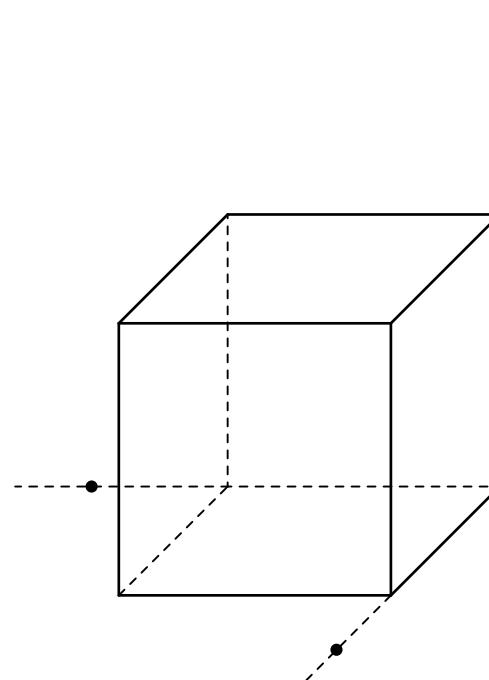
(6)



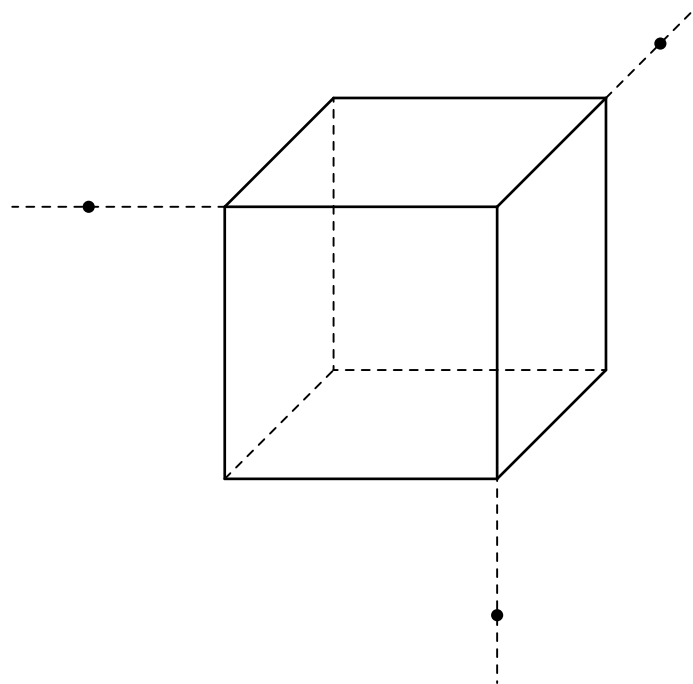
(7)



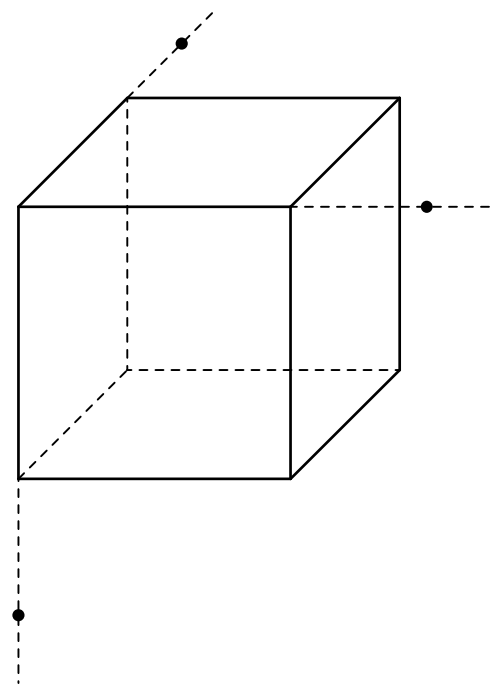
(8)



(9)



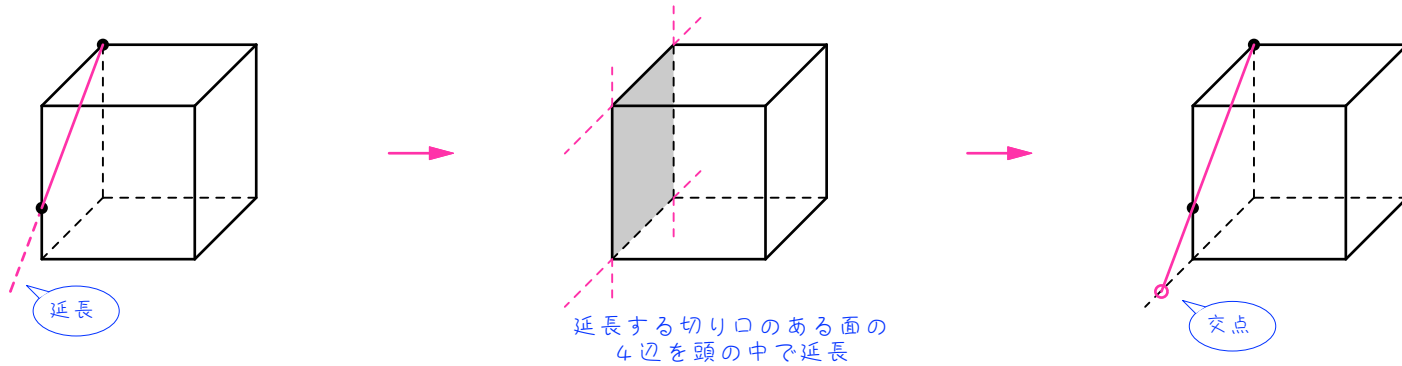
(10)



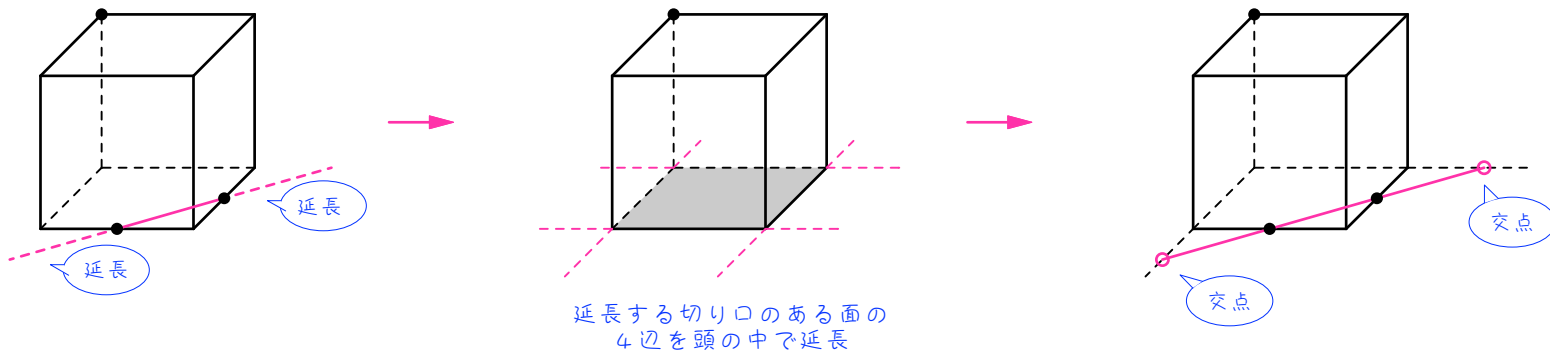
切り口の作図のポイント③

「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



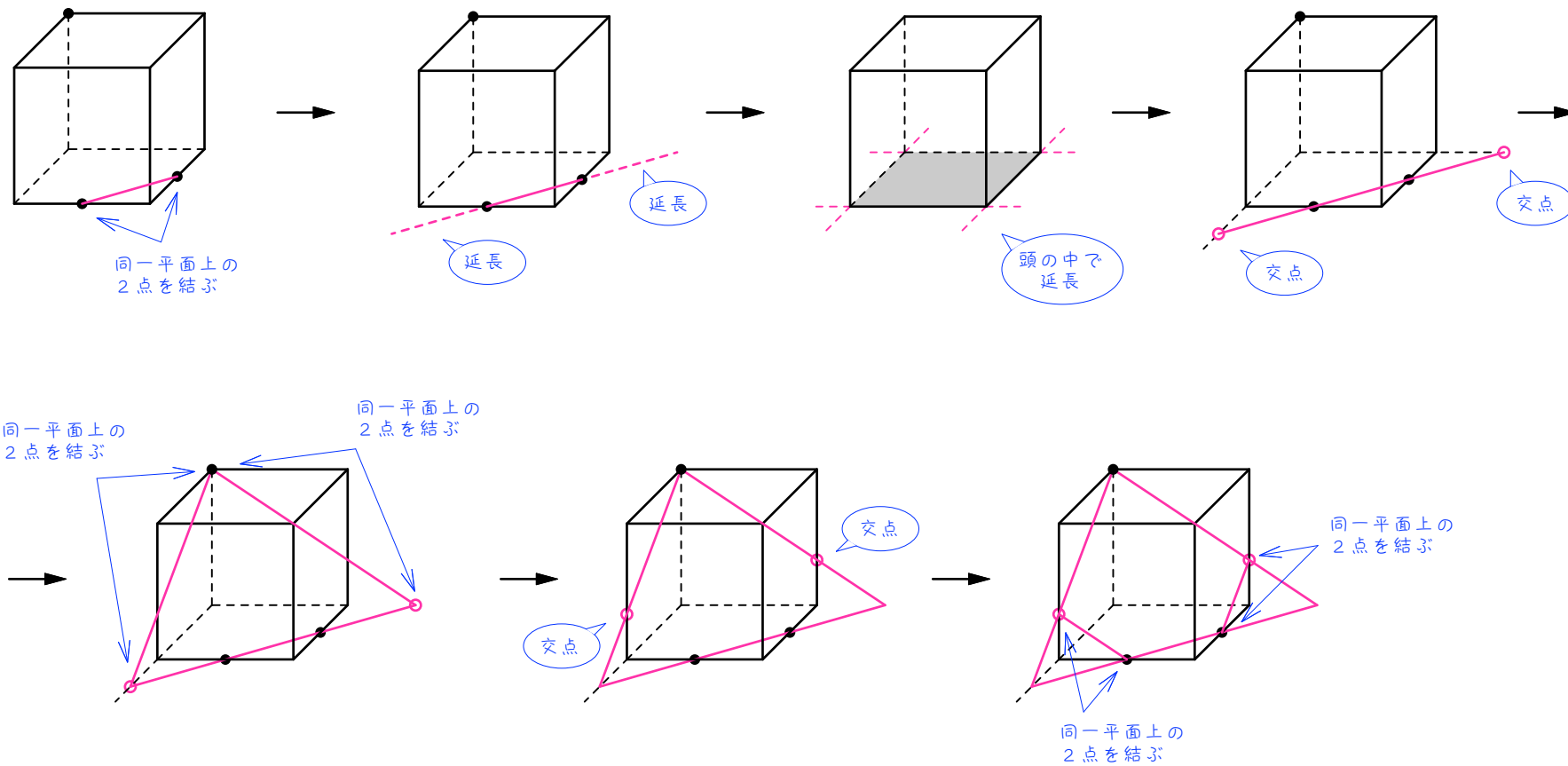
ケース2



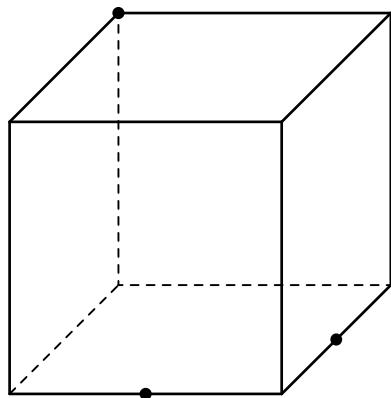
2

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。

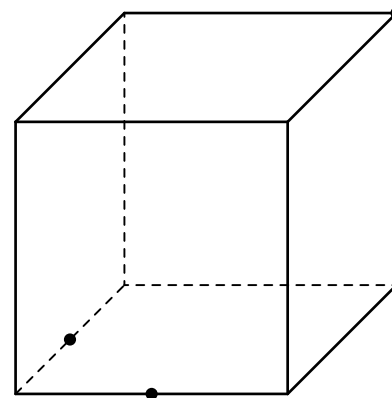
例



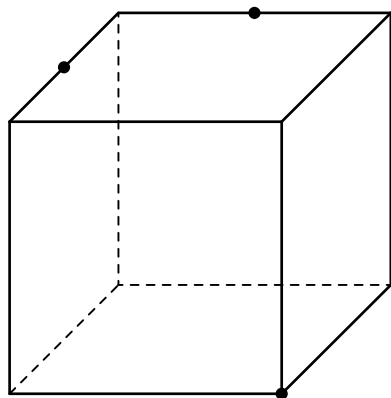
(1)



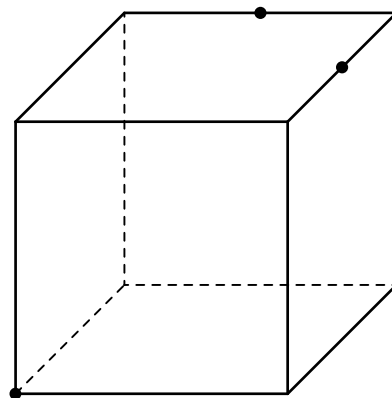
(2)



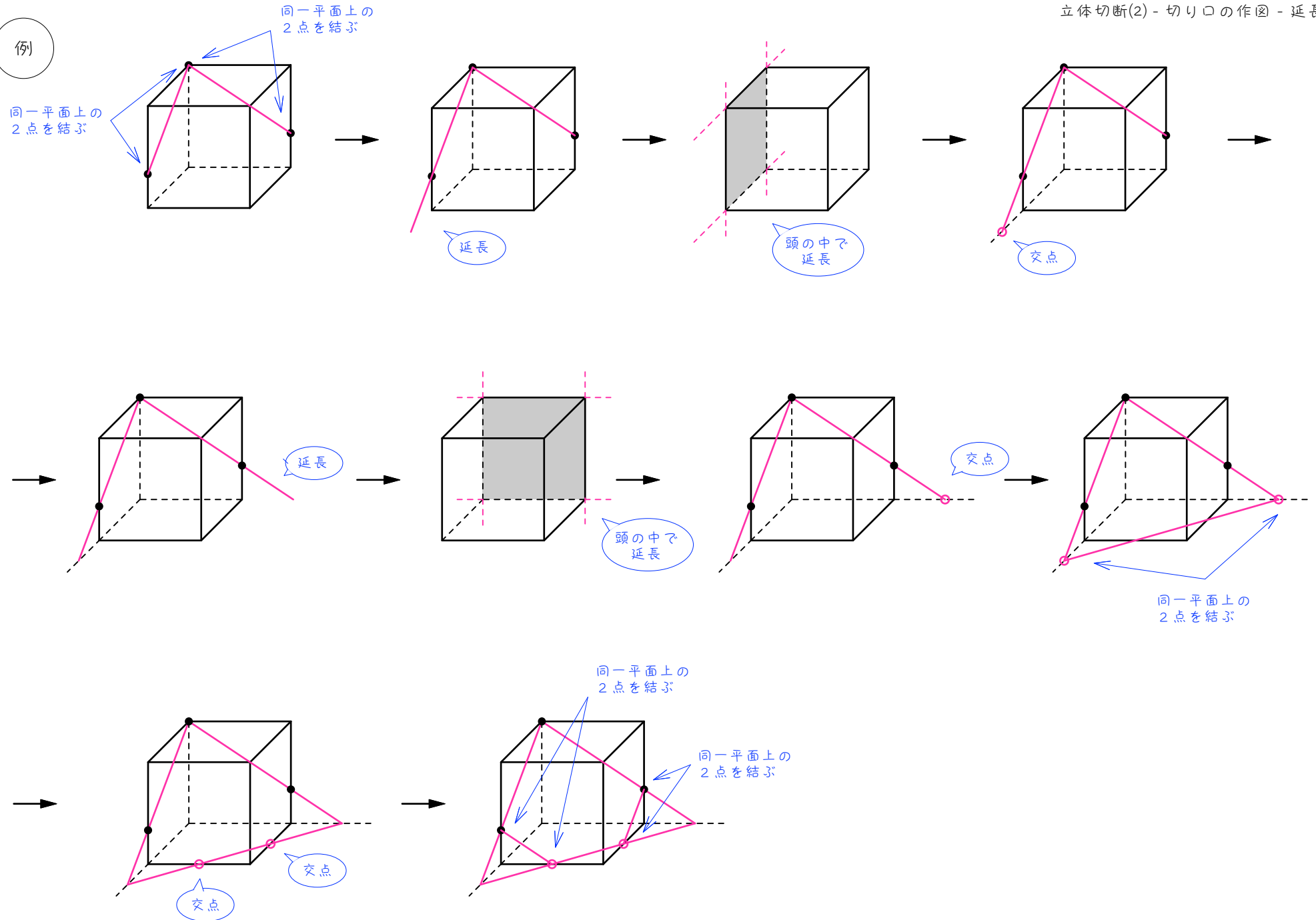
(3)



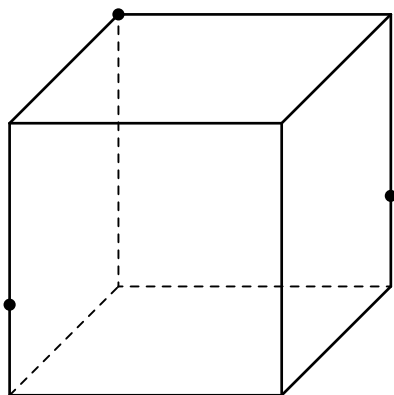
(4)



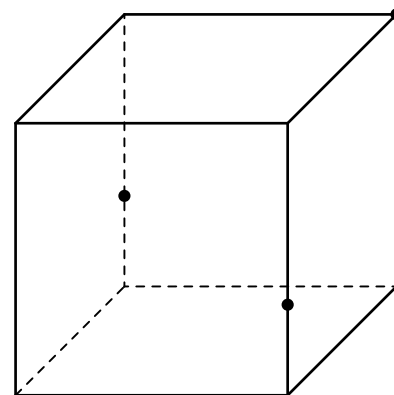
例



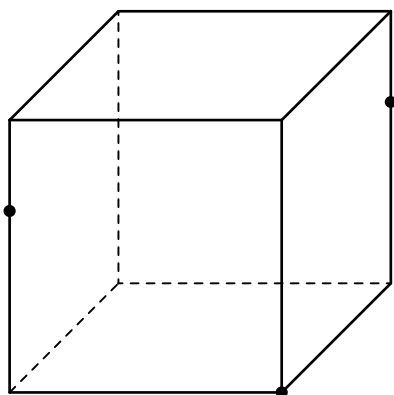
(5)



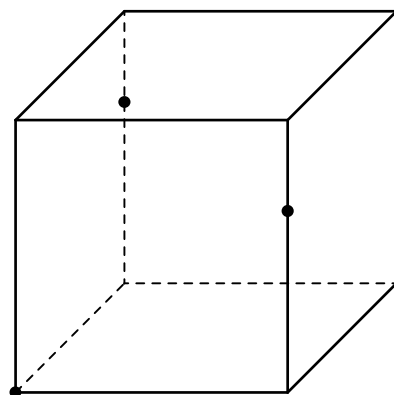
(6)



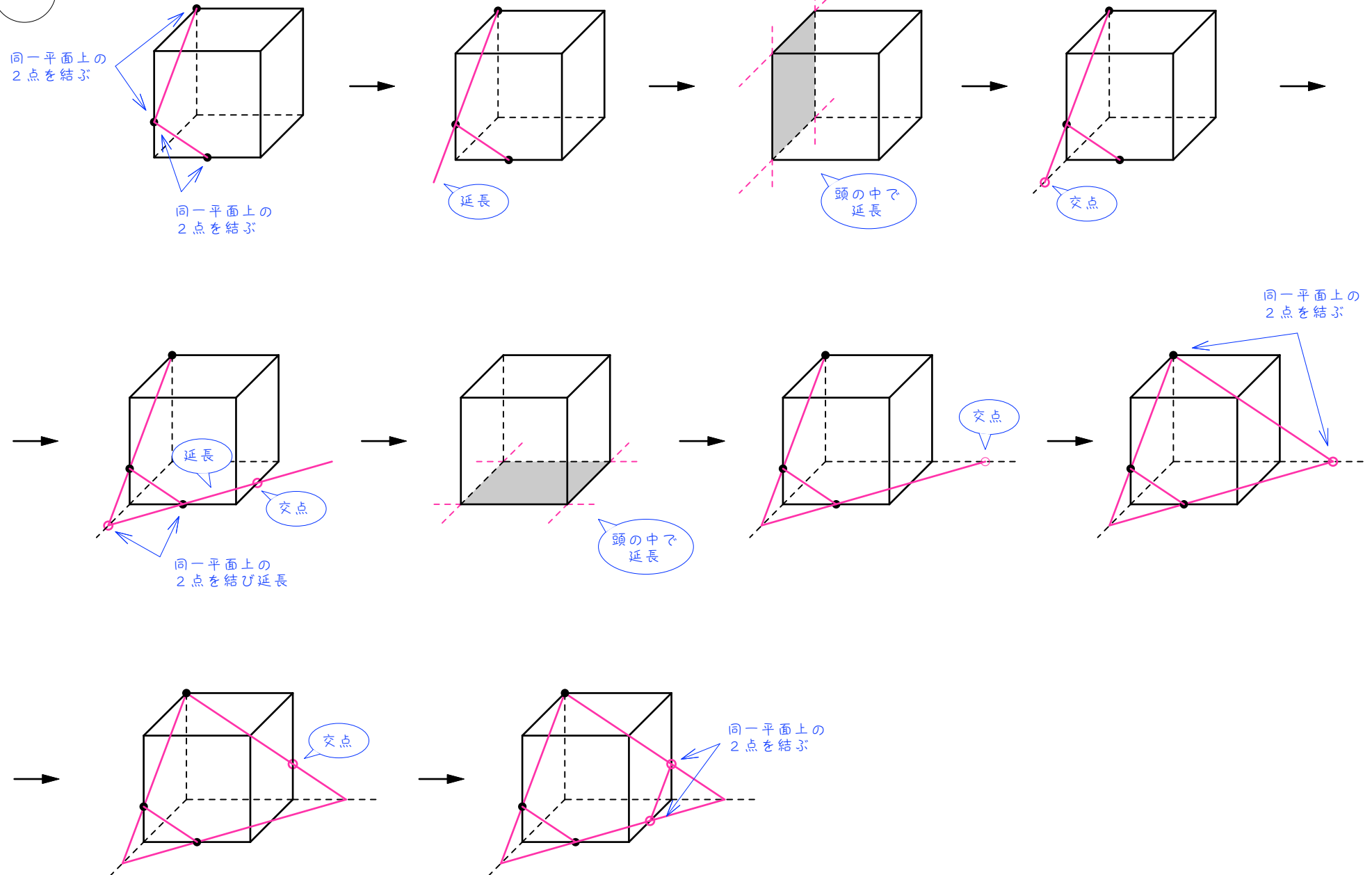
(7)



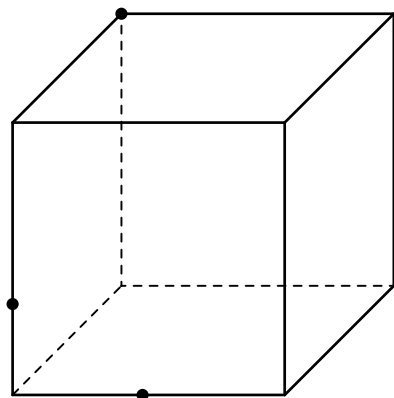
(8)



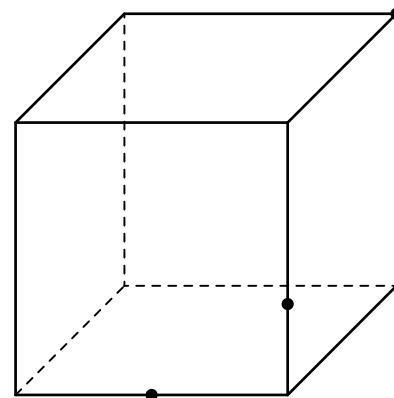
例



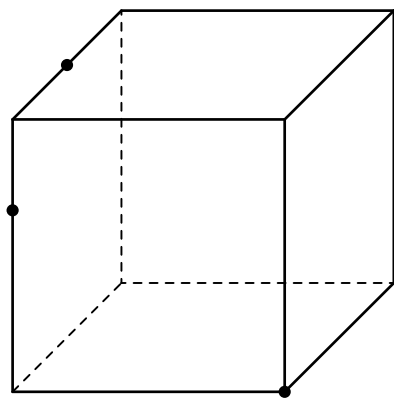
(9)



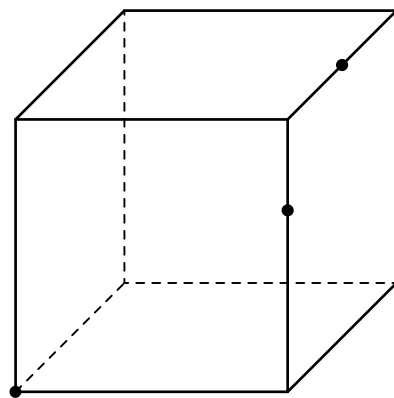
(10)



(11)

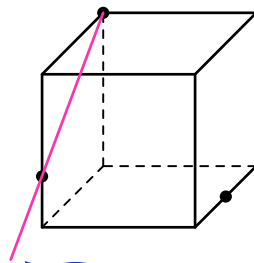
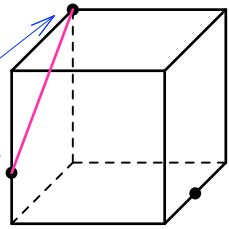


(12)

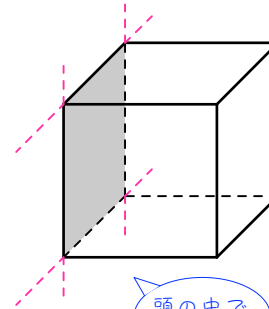


例)

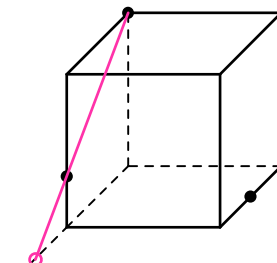
同一平面上の
2点を結ぶ



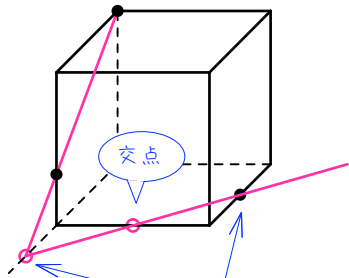
延長



頭の中で
延長

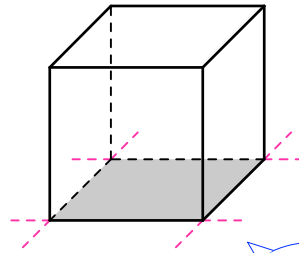


交点

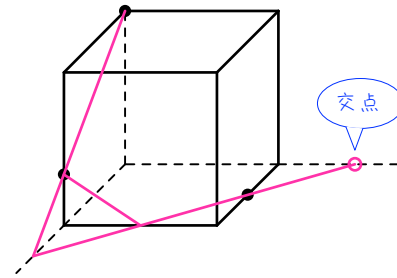


交点

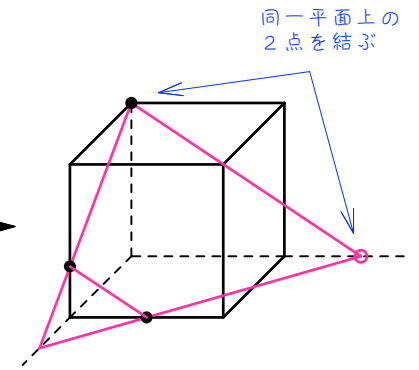
同一平面上の
2点を結び延長



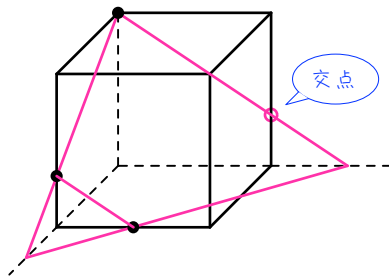
頭の中で
延長



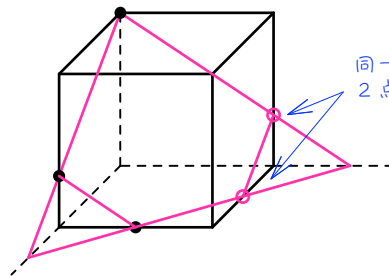
交点



同一平面上の
2点を結ぶ

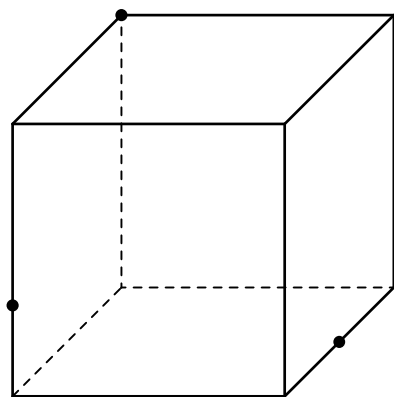


交点

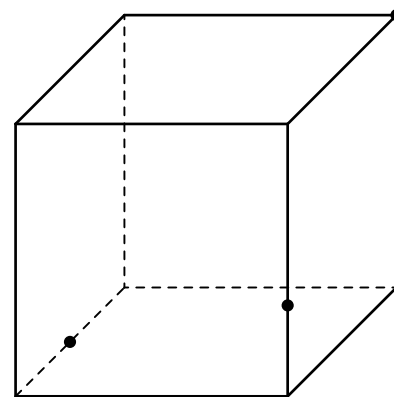


同一平面上の
2点を結ぶ

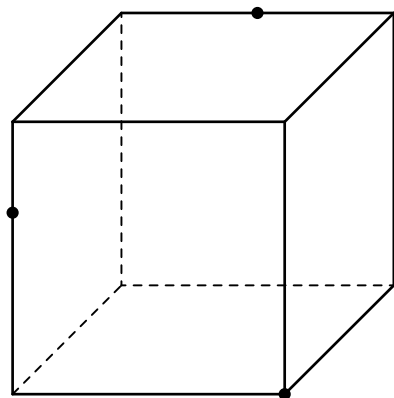
(13)



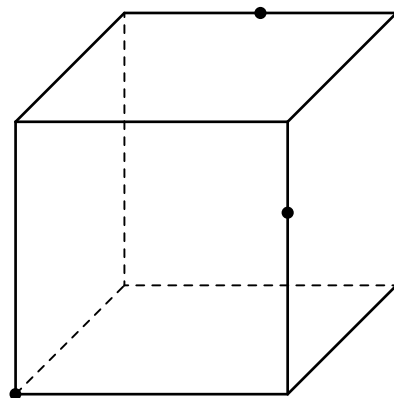
(14)



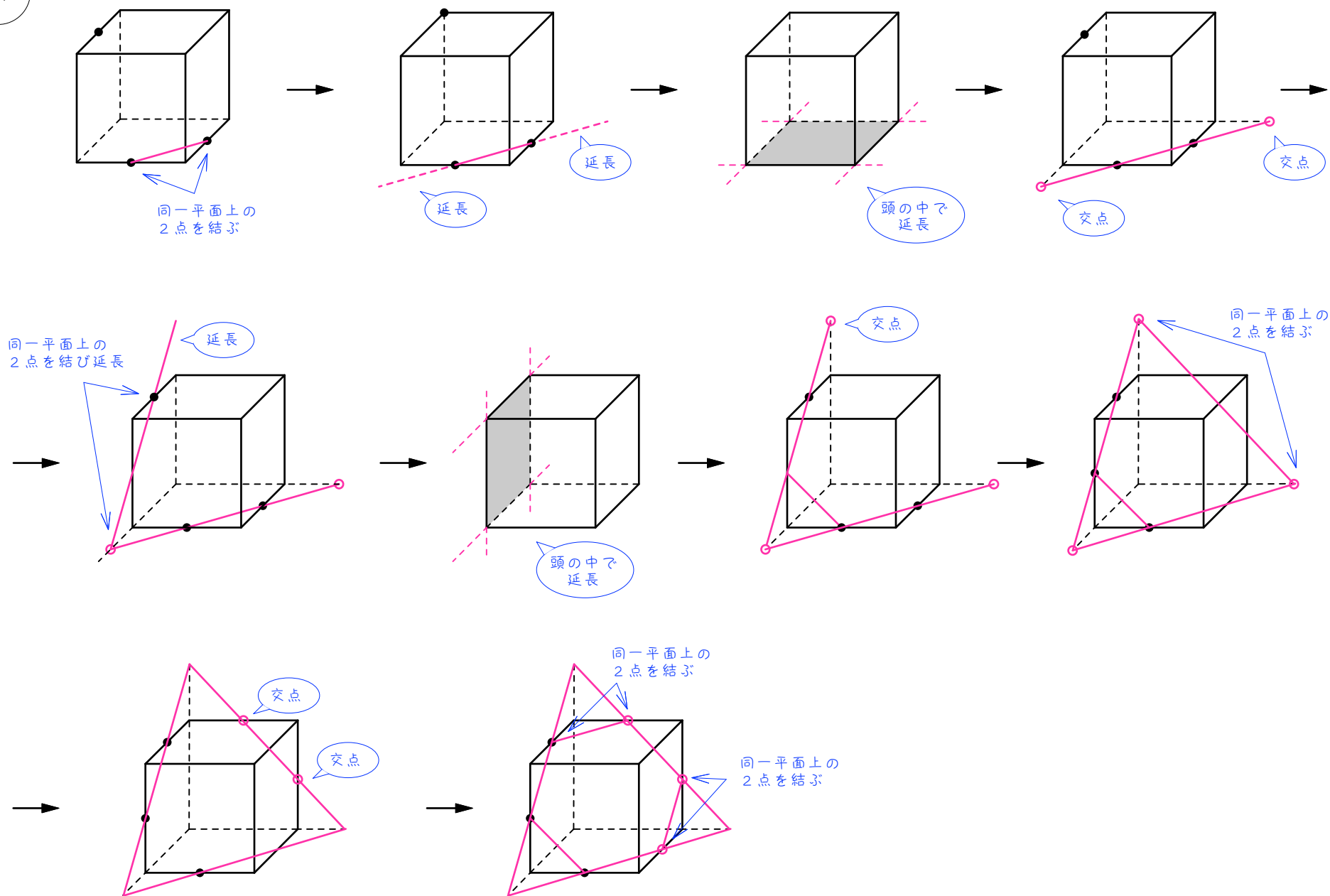
(15)



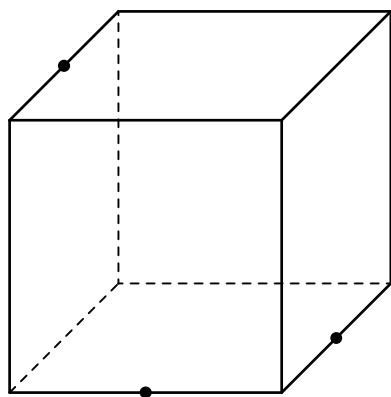
(16)



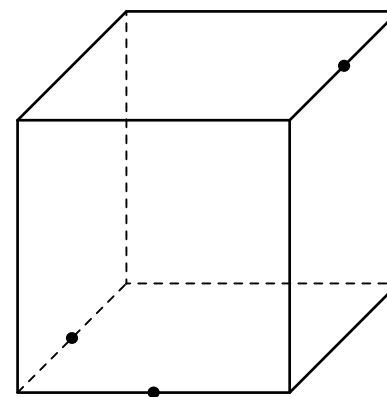
例



(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

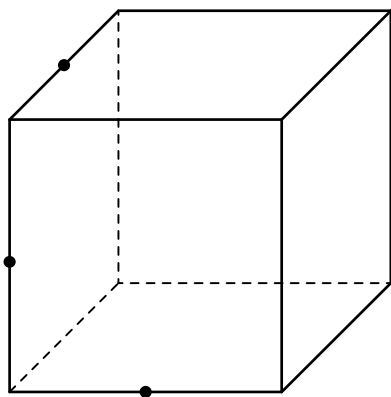
同一平面上の
2点を結ぶ

交点

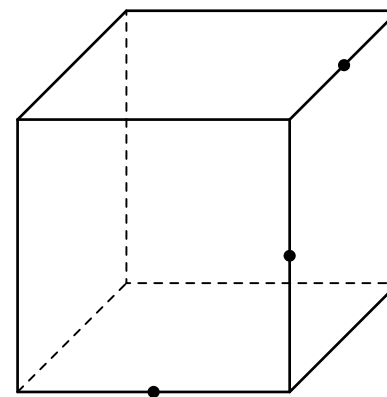
交点

同一平面上の
2点を結ぶ

(19)



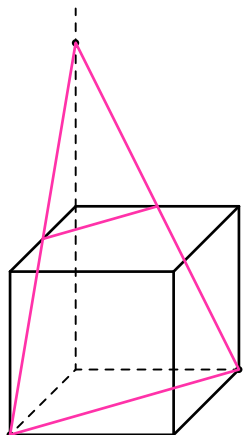
(20)



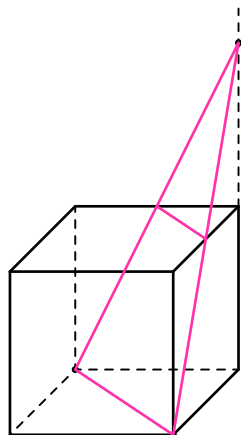
(解答)



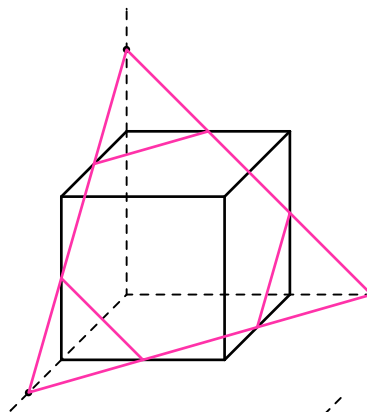
(1)



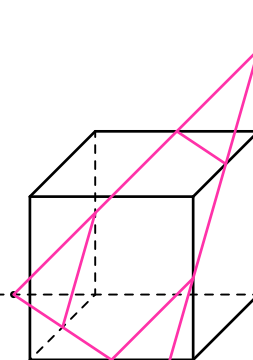
(2)



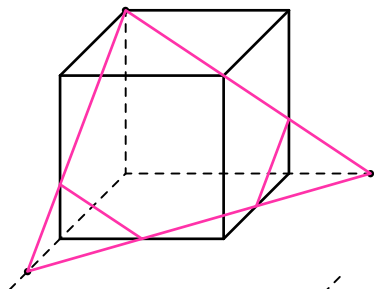
(7)



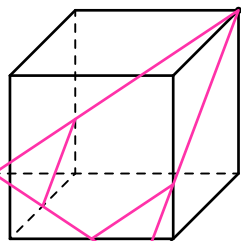
(8)



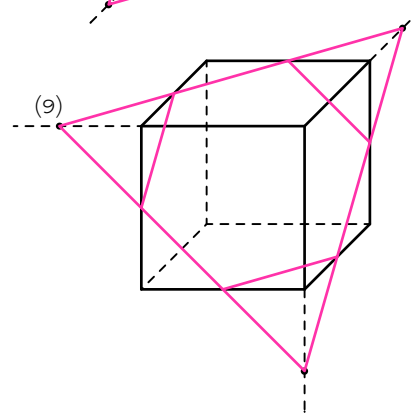
(3)



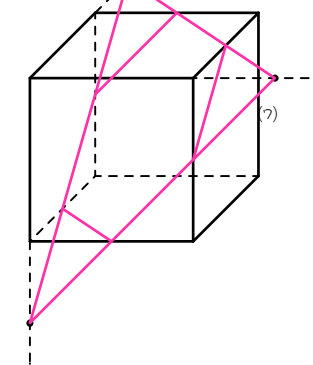
(4)



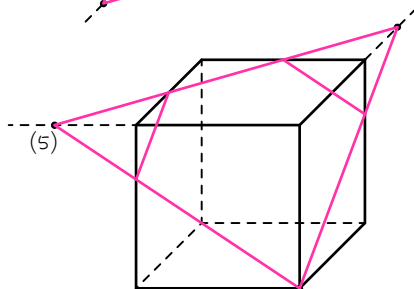
(9)



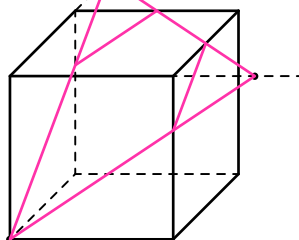
(10)



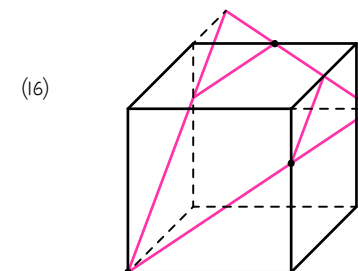
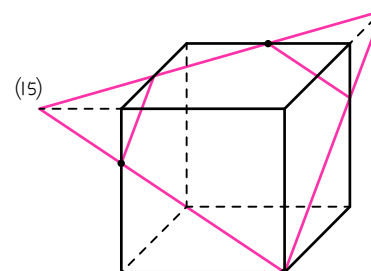
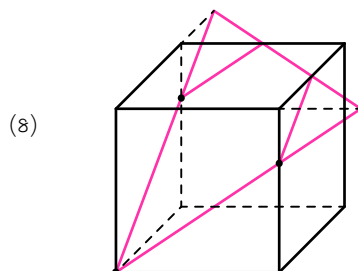
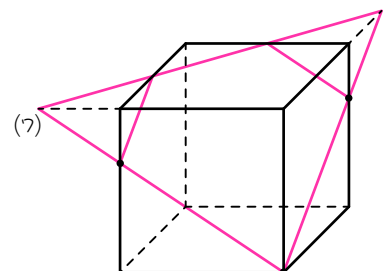
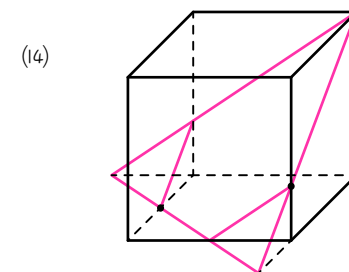
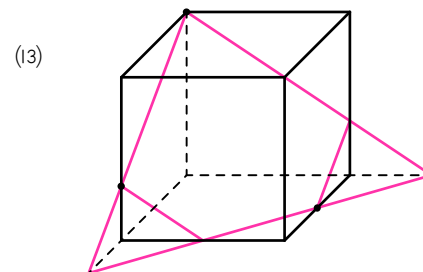
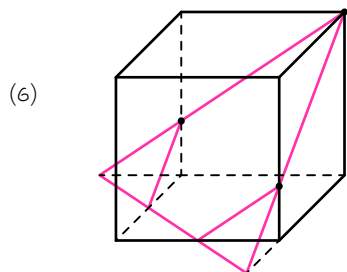
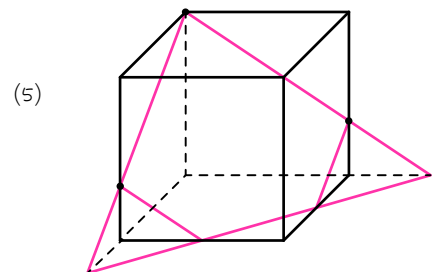
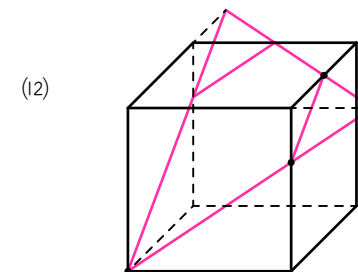
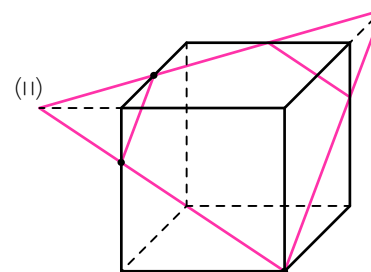
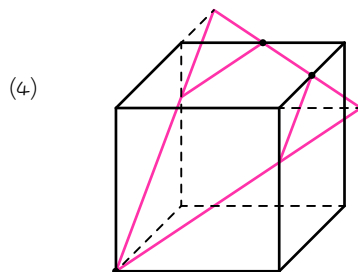
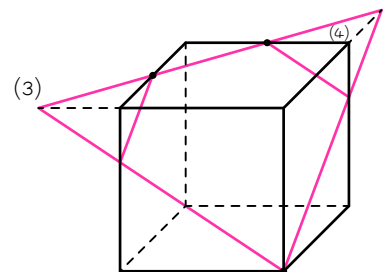
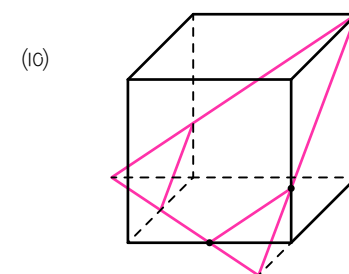
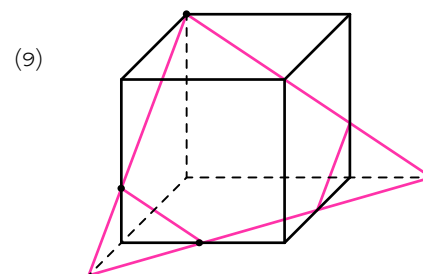
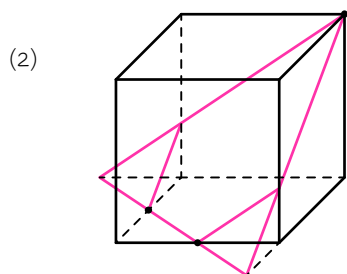
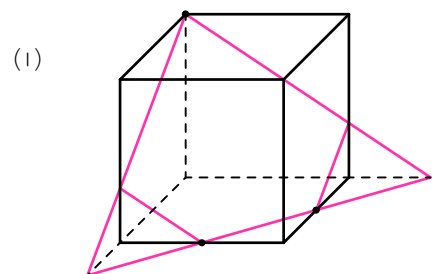
(5)



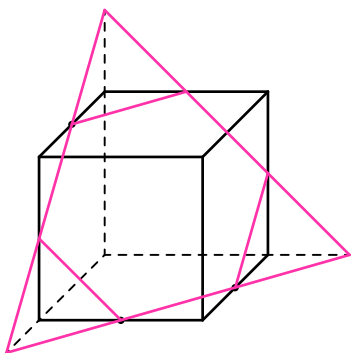
(6)



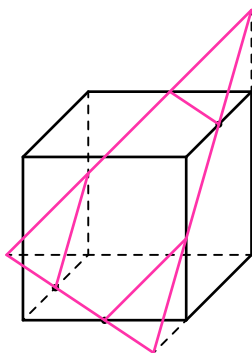
2



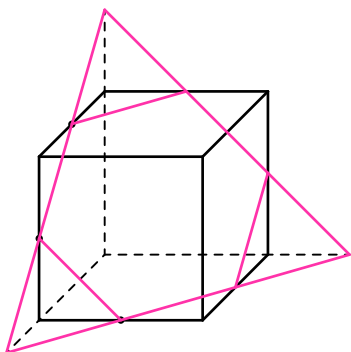
(17)



(18)



(19)



(20)

