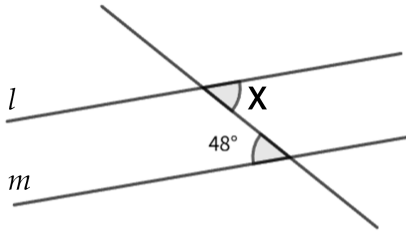




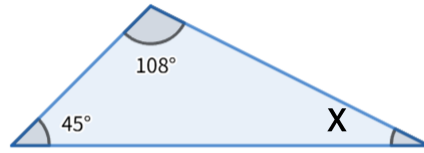
1. 以下の図の $\angle X$ の値を求めなさい。直線 l と直線 m は平行とする。

(1)



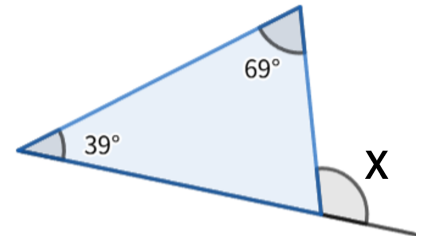
錯角により $\angle X = 48^\circ$

(2)



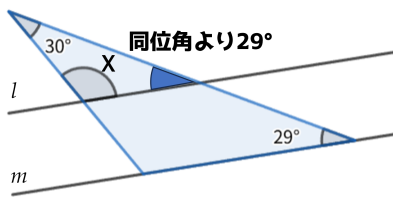
三角形の内角の和 = 180° より
 $\angle X = 180 - (108 + 45) = 27^\circ$

(3)



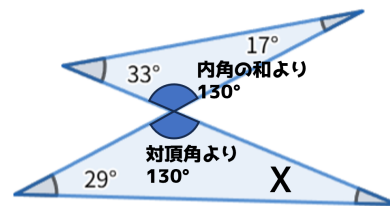
$\angle X$ は三角形の外角なので
 $\angle X = 69^\circ + 39^\circ = 108^\circ$

(4)



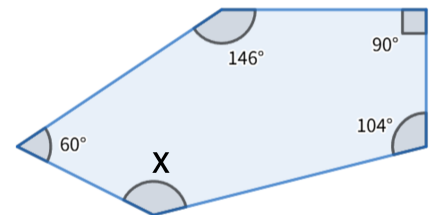
$\angle X = 180^\circ - (30^\circ + 29^\circ) = 121^\circ$

(5)



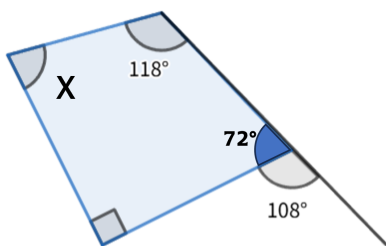
$\angle X = 180^\circ - (130^\circ + 29^\circ) = 21^\circ$

(6)



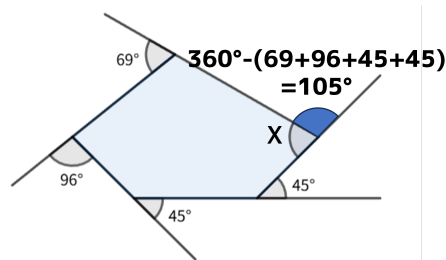
5角形の内角の和
 $= (5 - 2) \times 180^\circ = 540^\circ$
 $\angle X = 540 - (60 + 146 + 90 + 104) = 140^\circ$

(7)



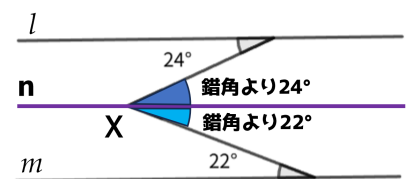
$\angle X = 360^\circ - (118^\circ + 90^\circ + 72^\circ) = 360^\circ - 280^\circ = 80^\circ$

(8)



$\angle X$ と隣り合う角は、5角形の外角の和が 360° になることから求める。
 $\angle X = 180^\circ - 105^\circ = 75^\circ$

(9)



直線 l と m に平行な n を引く
 $\angle X = 24^\circ + 22^\circ = 46^\circ$

(1) $\angle X = 48^\circ$

(2) $\angle X = 27^\circ$

(3) $\angle X = 108^\circ$

(4) $\angle X = 121^\circ$

(5) $\angle X = 21^\circ$

(6) $\angle X = 140^\circ$

(7) $\angle X = 80^\circ$

(8) $\angle X = 75^\circ$

(9) $\angle X = 46^\circ$