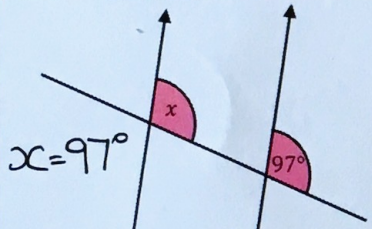
Angles in Parallel Lines

Find the value of x in each of these diagrams, stating any angle rules you use.

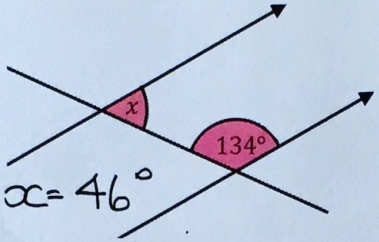
(a)



$x = 97°$

corresponding

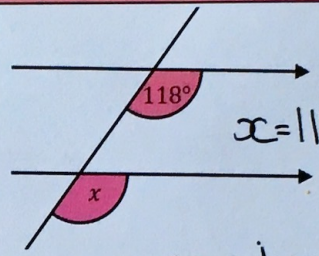
(b)



$x = 46°$

co-interior

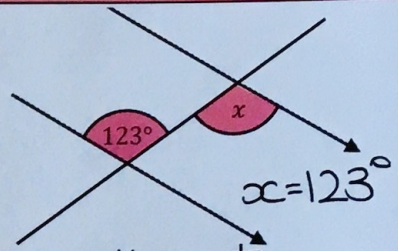
(c)



$x = 118°$

corresponding

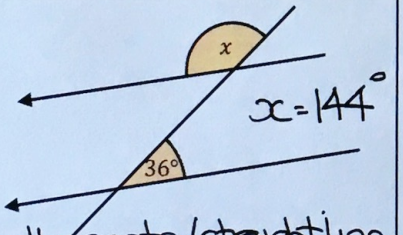
(d)



$x = 123°$

alternate

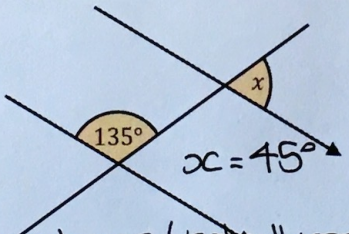
(e)



$x = 144°$

alternate/straight line
or corresponding/straight line

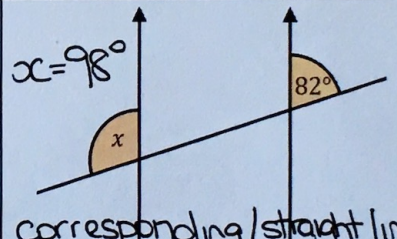
(f)



$x = 45°$

cointerior/vertically opp
or alternate/straight line

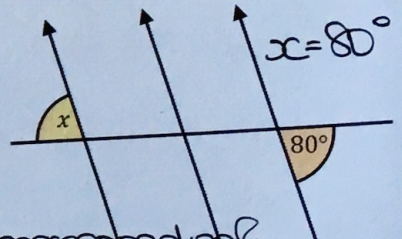
(g)



$x = 98°$

corresponding/straight line
vertically opp/co-interior

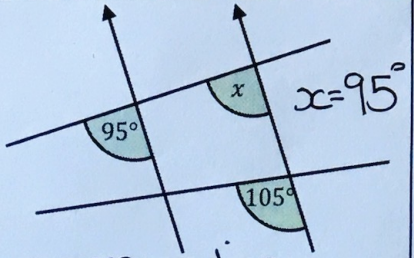
(h)



$x = 80°$

corresponding &
vertically opposite

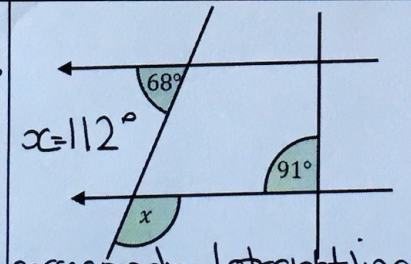
(i)



$x = 95°$

corresponding

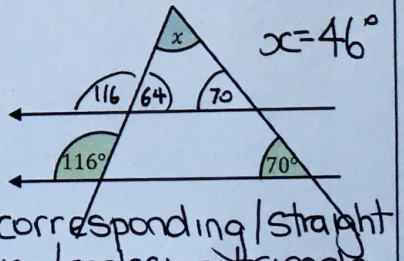
(j)



$x = 112°$

corresponding/straight line

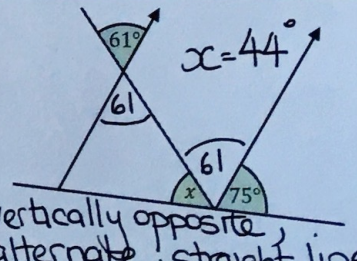
(k)



$x = 46°$

corresponding/straight line/angles in a triangle

(l)



$x = 44°$

vertically opposite, alternate, straight line