5. Find the value of all the pronumerals, giving reasons.

a

b

c

d
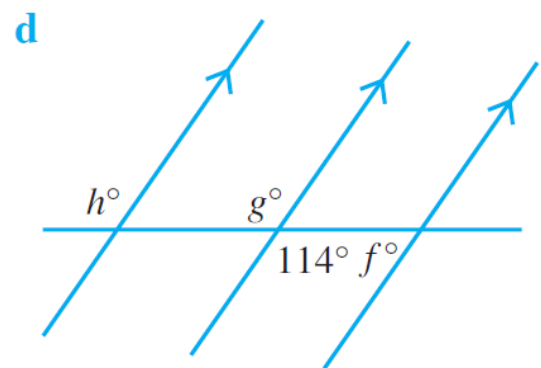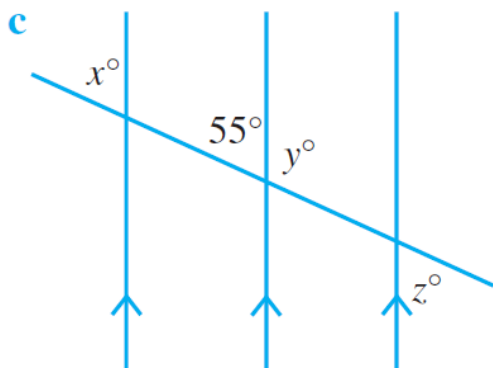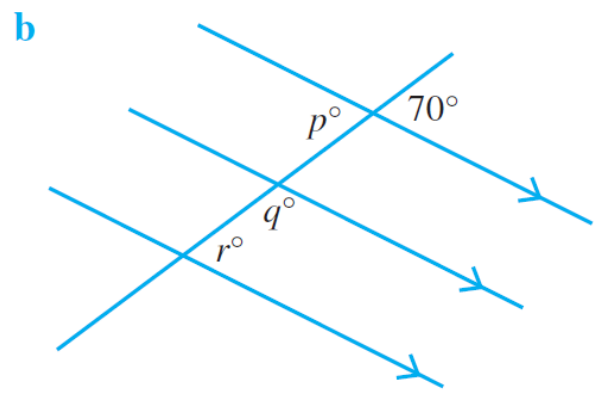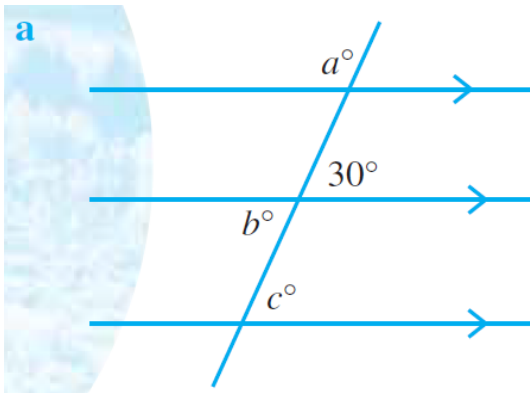
6 Find the value of the pronumeral in each of these, giving reasons.

a

$78°$ $p°$ $q°$

b

$t°$ $s°$ $24°$

c

$x°$ $139°$ $y°$

d

$u°$ $40°$ $64°$

e

$121°$ $c°$ $b°$

f

$w°$ $153°$ $v°$ $144°$

g

$47°$ $y°$ $z°$

h

$72°$ $14°$ $f°$ $e°$

i

$106°$ $r°$ $q°$ $15°$

j

$c°$
$c°$
$68°$
$d°$

k

$132°$
$m°$
$n°$
$57°$

l

$g°$
$104°$
$h°$

m

$f°$
$74°$
$g°$

n

$v°$
$u°$
$137°$ $109°$

o

$59°$ $r°$ $39°$
$s°$

p

$143°$ $y°$ $72°$ $x°$ $z°$

q

$c°$ $b°$ $a°$ $217°$

r

$88°$ $15°$ $d°$ $e°$ $f°$
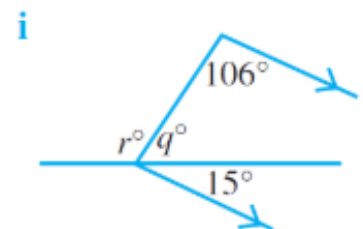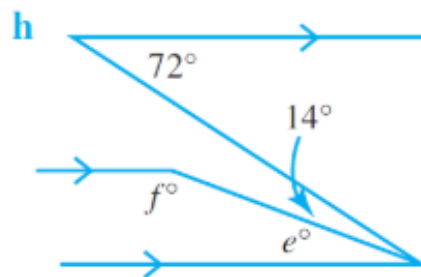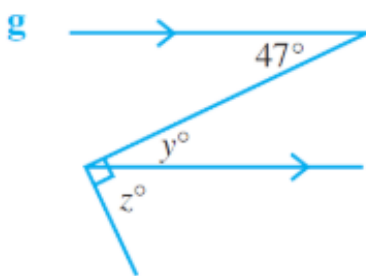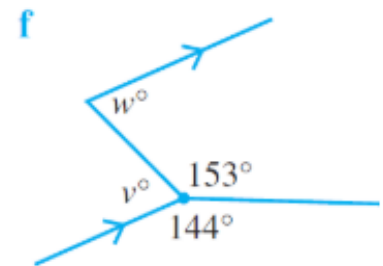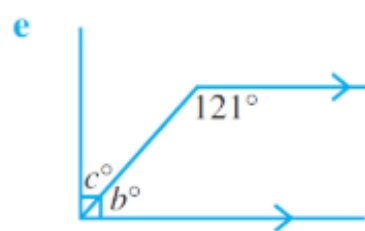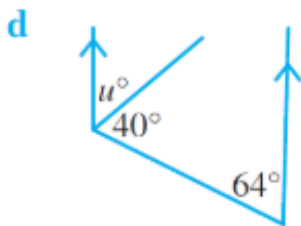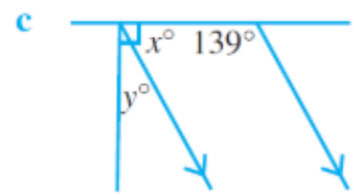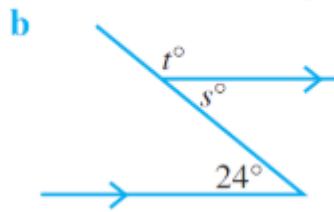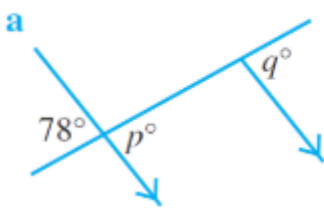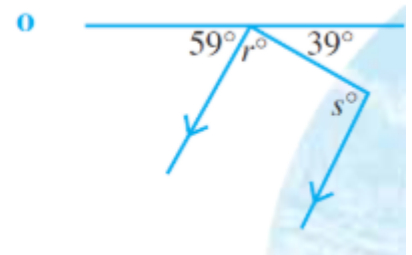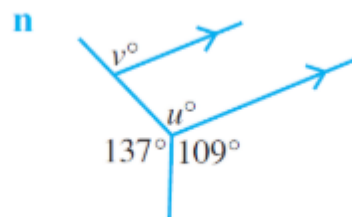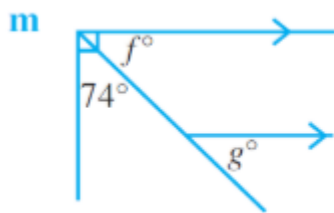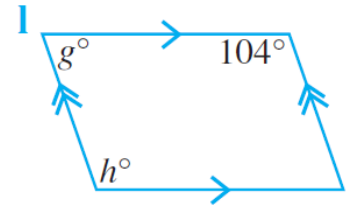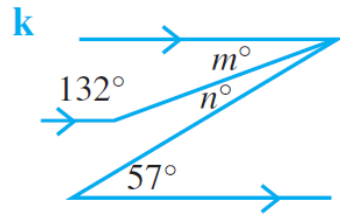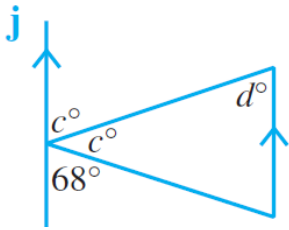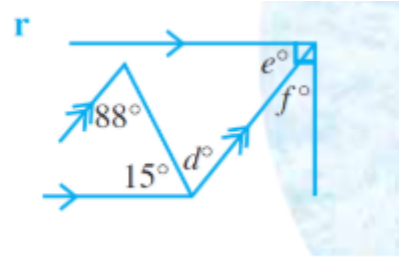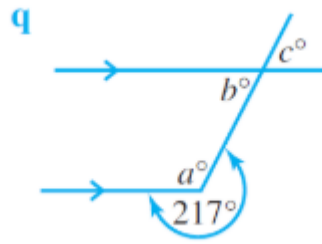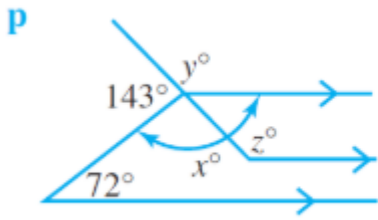
7 Form an equation and solve it to find the value of each pronumeral. Give brief reasons.

a

$74°$

$(x - 18)°$

b

$(3c + 5)°$

$4c°$

c

$(3a + 89)°$

$(9a - 31)°$
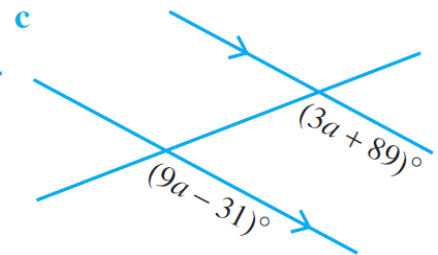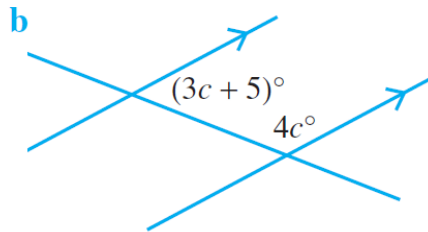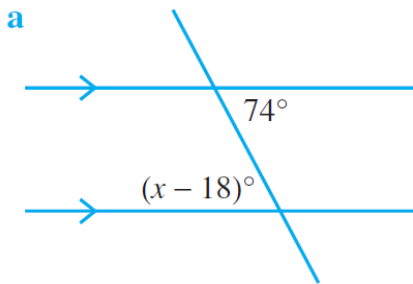
8 Find the value of the pronumeral in each of these. (HINT: You will need to draw a line parallel to the given parallel lines.)

a

25°

$m°$

32°

b

37°

88°

$j°$

c

129°

$h°$

10°

d

140°

$b°$

155°

e

43°

$r°$

38°

f

153°

30°

$e°$