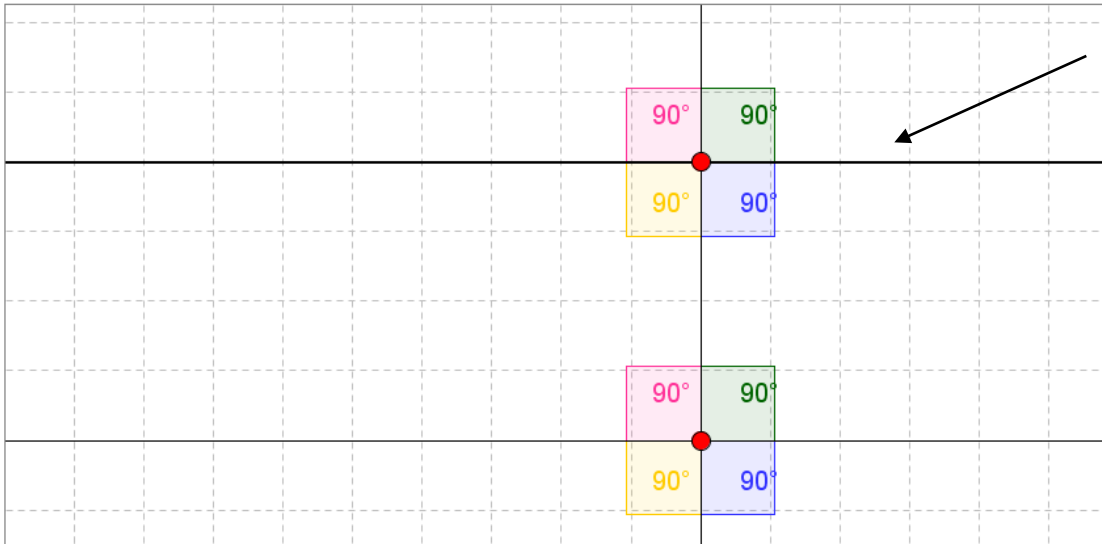## Investigating Parallel Lines

Move the red points to change the angles, answer the questions on your sheet to investigate parallel lines!

Load up this tool from:
http://www.geogebratube.org/student/m1118

Use it to answer the questions below and try to find out the relationship between angles in parallel lines

As you move the red point around…

What do you notice about the two following angles?

The two pink angles	
The two blue angles	
The yellow and green angles	
The blue and pink angles	
The yellow and blue angles	
The pink and green angles	

Which angles might you call 'corresponding' and why?

Which angles might you call 'alternate' and why?

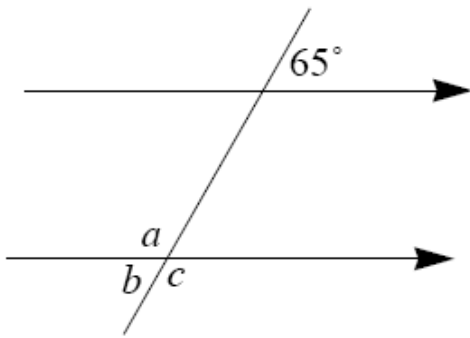Which angles might you call 'co-interior' and why?

If one pink angle was 40 degrees can you predict…
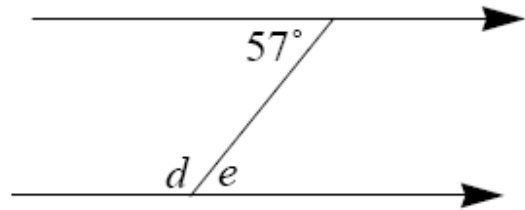Green angle would be =
Yellow angle would be =
Blue angle would be =

Using what you have found can you answer these questions? Find the size of the missing angles and explain how you know the answer.
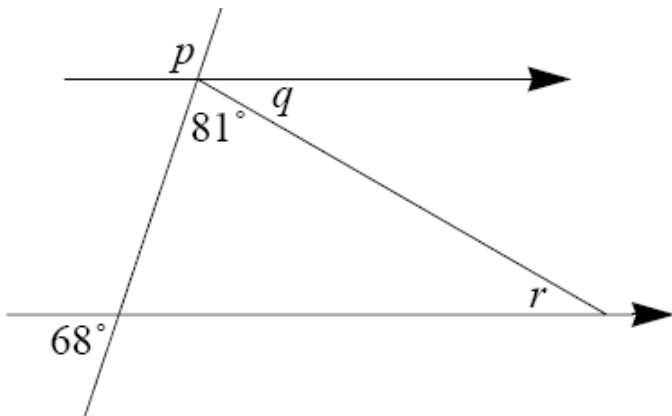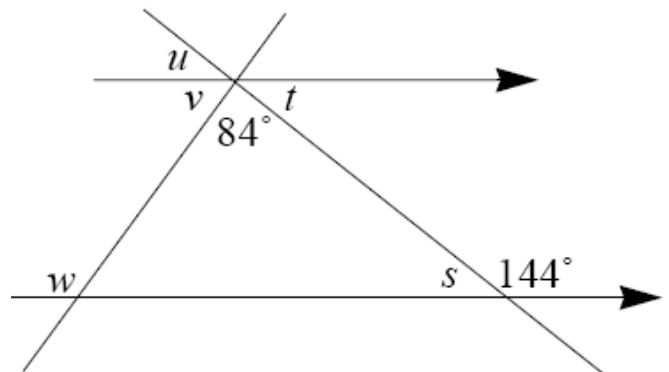
65°

a
b/c

57°

d/e

a =

d =

b =

e =

c =

p
81°
q

68°

r

u
v
84°
t

w

s 144°

p =

u =

q =

s =

r =

t =

v =

w =