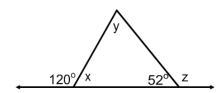
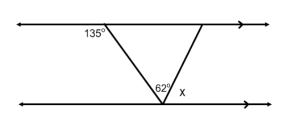
Solve for each of the unknown angles; justify your answer with an equation and calculation, OR, by stating what pattern or relationship you used (supplementary, opposite angle, etc.):

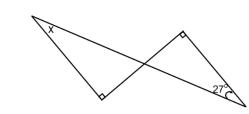
1. a)



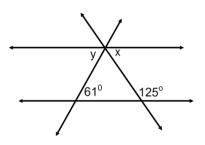
b)



c)

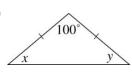


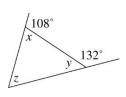
d)

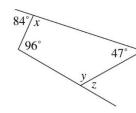


2. Find the missing angle (x, y or z) for the following problems. (8 marks)

(a)







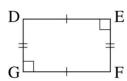
$$\mathbf{x} =$$

$$\mathbf{v} =$$

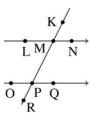
$$\mathbf{v} =$$

$$\mathbf{v} =$$

3. Find the requested angle for the following diagrams (6 marks)



(b)



Given <DGF = 90°

Find

$$<$$
GDE =



Given <LMK = 112°

Find