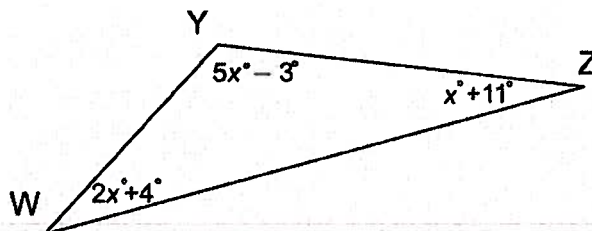


8.7.2: Connecting Algebra to Geometry

1. a) The sum of the interior angles in a triangle is:

- b) An equation that models the sum of the interior angles in this triangle is:



- c) Solve the equation to determine the value of x .

- d) Use the value of x to calculate the size of:

$\angle W$:

$\angle Y$:

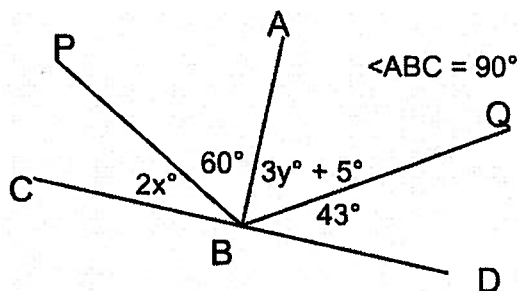
$\angle Z$:

2. a) The sum of the angles in a right angle is:

- b) Write 2 equations to model the sums of the 2 sets of angles that add to 90° :

(i)

(ii)



- c) Solve these equations to determine the values.

(i) solve for x°

(ii) solve for y°

- d) Use the values of x and y to calculate the size of:

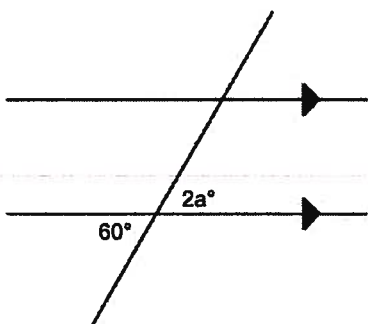
$\angle CBP$:

$\angle ABQ$:

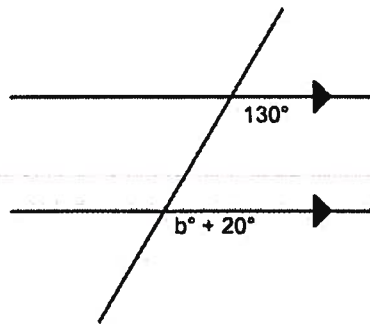
8.7.2: Connecting Algebra to Geometry (continued)

3. Write an equation and solve for the unknown. State the theorem used to make the equation.

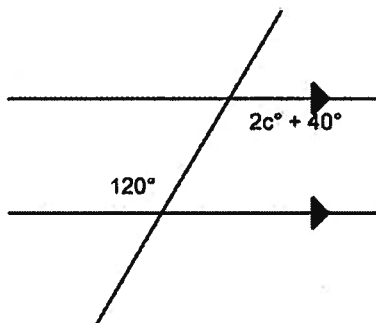
a)



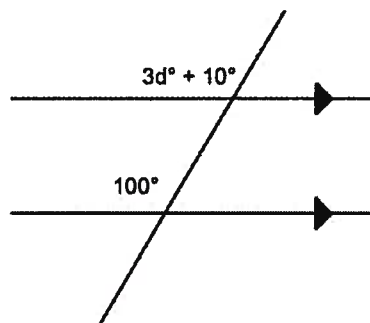
b)



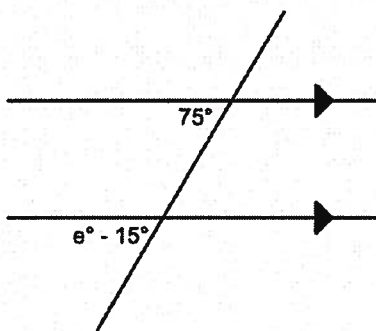
c)



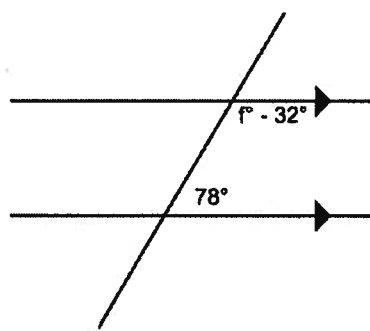
d)



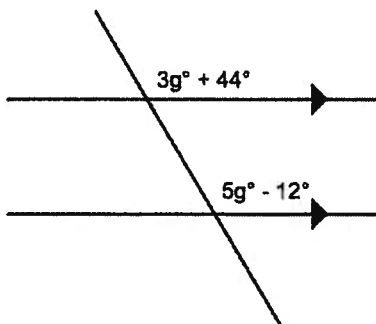
e)



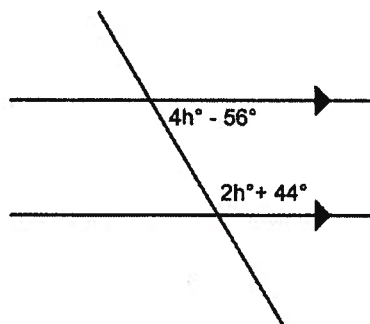
f)



g)

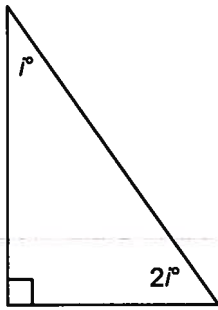


h)

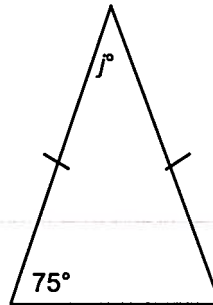


8.7.2: Connecting Algebra to Geometry (continued)

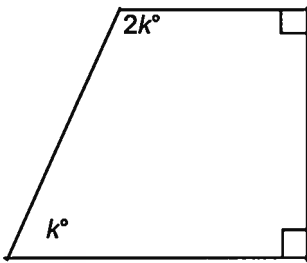
i)



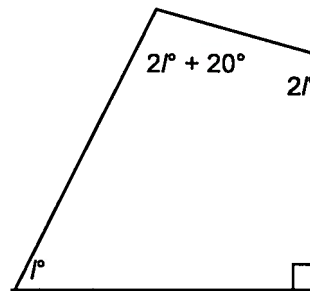
j)



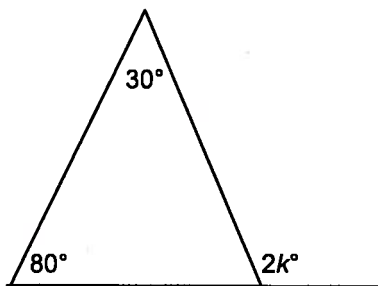
k)



l)



m)



n)

