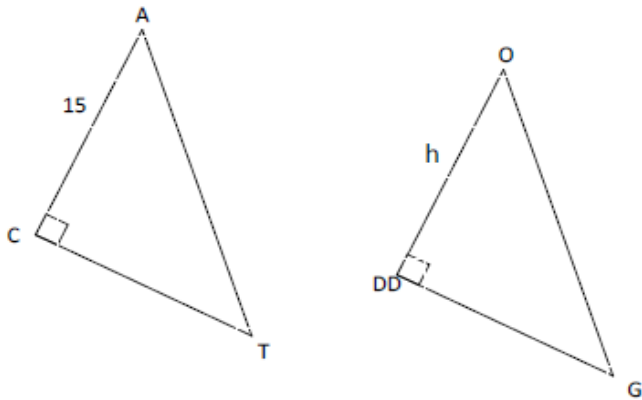


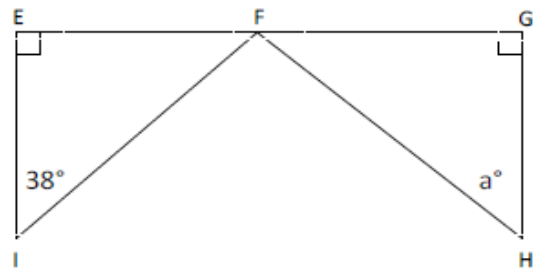
16.3 CPCTC

I. Solve for the variable.

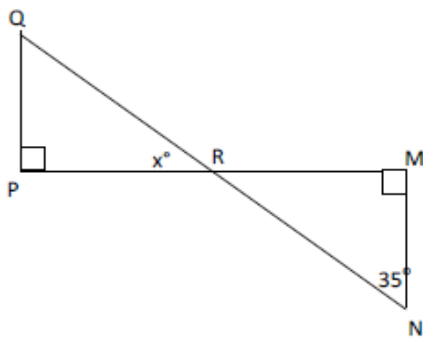
1.  $\triangle CAT \cong \triangle DOG$ . Find  $h$ .



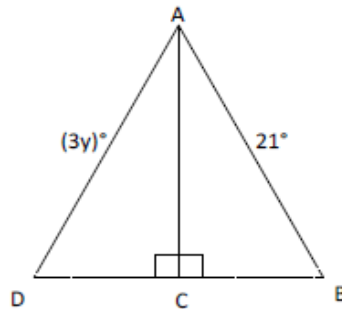
2.  $\triangle IEF \cong \triangle HGF$ . Find  $a$ .



3.  $\triangle PQR \cong \triangle MNR$ . Find  $x$ .

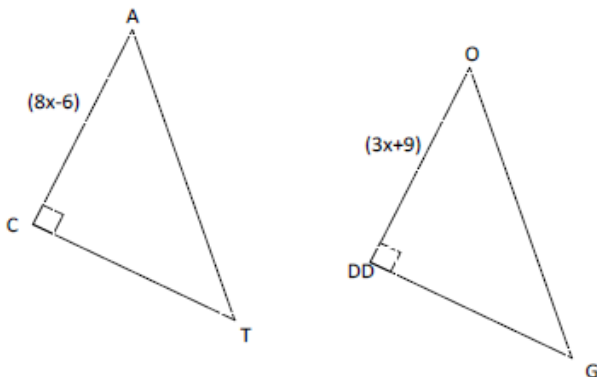


4.  $\triangle ABC \cong \triangle ADC$ . Find  $y$ .

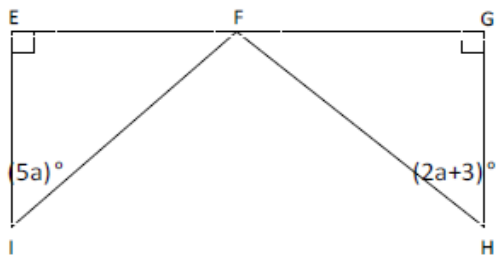


II. Set up an equation and then solve for the variable.

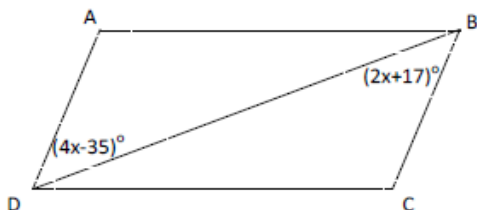
5.  $\triangle CAT \cong \triangle DOG$ . Find  $x$ .



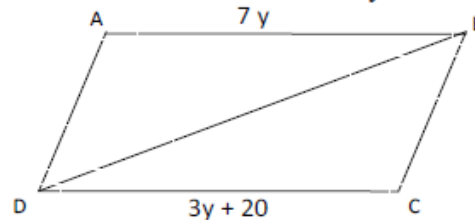
6.  $\triangle IEF \cong \triangle HGF$ . Find  $a$ .



7.  $\triangle ABD \cong \triangle CDB$ . Find  $x$ .

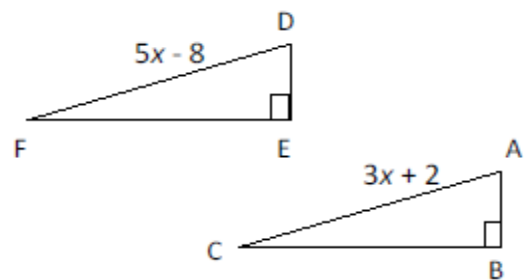


8.  $\triangle ABD \cong \triangle CDB$ . Find  $y$ .

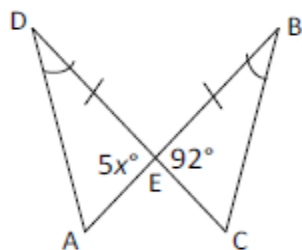


III. For which value(s) of  $x$  are the triangles congruent?

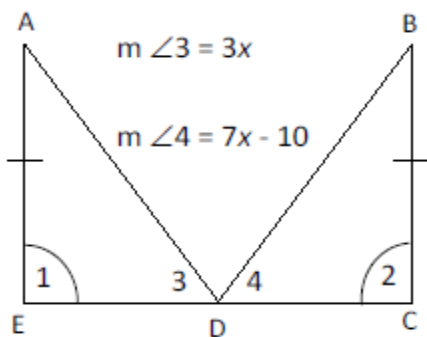
9.  $x =$  \_\_\_\_\_



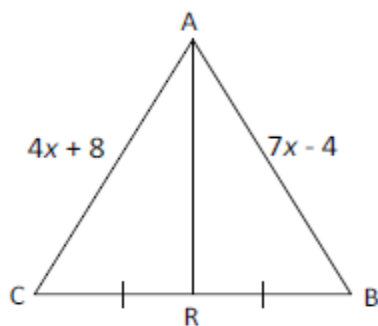
10.  $x =$  \_\_\_\_\_



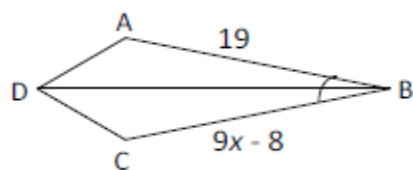
11.  $x =$  \_\_\_\_\_



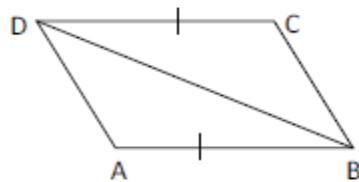
12.  $x =$  \_\_\_\_\_



13.  $x =$  \_\_\_\_\_

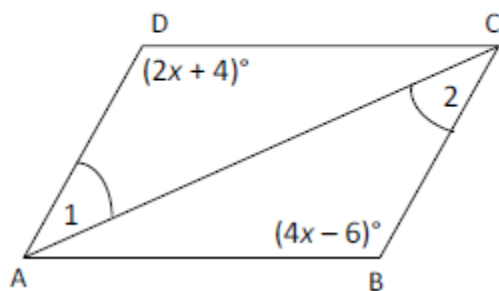


14.  $x =$  \_\_\_\_\_



$m\angle CDB = (15x + 3)^\circ$        $m\angle ABD = (10x + 18)^\circ$

15.  $x =$  \_\_\_\_\_



16.  $x =$  \_\_\_\_\_

