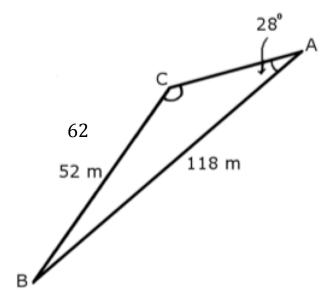
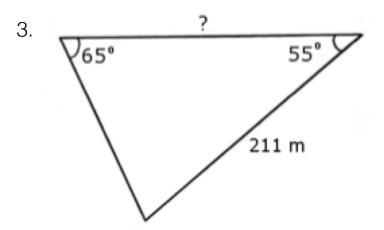
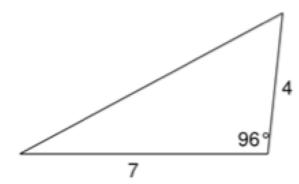


2. Solve for obtuse angle C

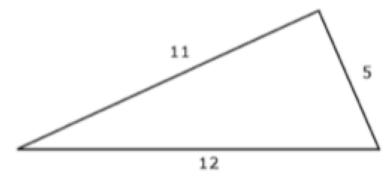




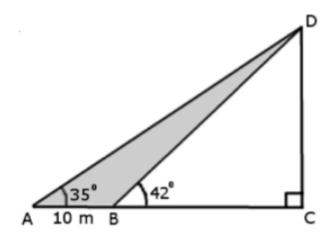
4. Find the area of the triangle



5. Find the area of the triangle



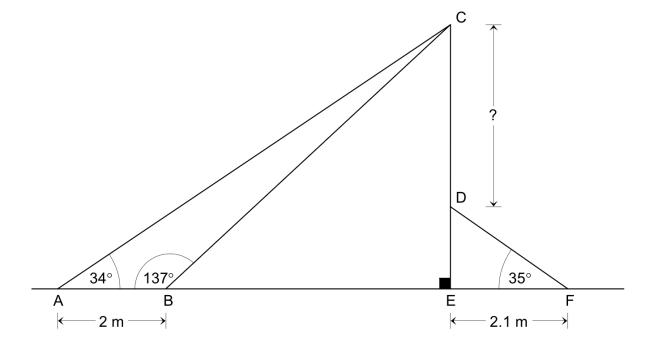
6. Find the area of the shaded triangle



7. A statue is secured to a base. Joan determined the measurements in the diagram below to find the height of the statue without the base.

In this diagram,

- line segment CD represents the statue
- line segment DE represents the base
- line AF represents the ground

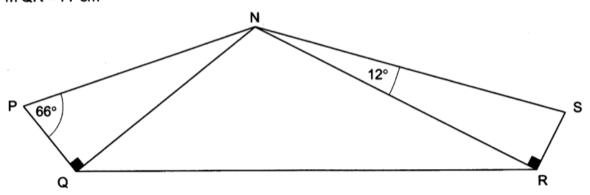


To the nearest tenth of a metre, what is the height of the statue without the base?

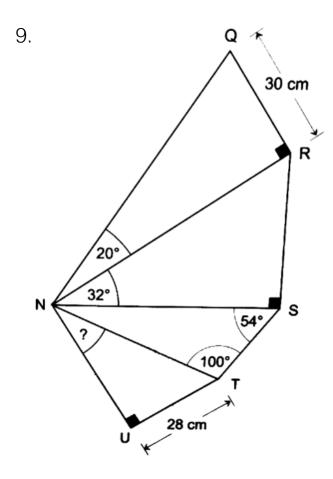
8. Area of Pentagon NPQRS

Diagonals NQ and NR were drawn in pentagon NPQRS represented below.

In addition, $m \overline{NQ} = 40 \text{ cm}$ $m \overline{NR} = 51 \text{ cm}$ $m \overline{QR} = 77 \text{ cm}$

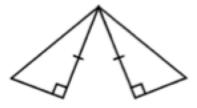


To the nearest cm², what is the area of pentagon NPQRS?



10. Are the following sets of triangles isometric or not? If so, state the isometric proof.

a)



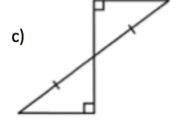
Isometric ______.

Proof _____



Isometric ______.

Proof



Isometric ______.

Proof _____

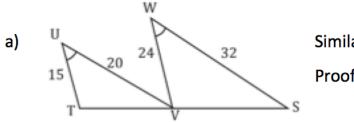
d)



Isometric ______.

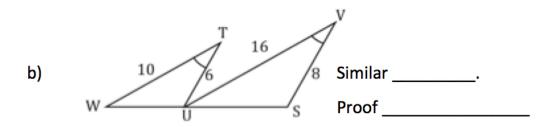
Proof _____

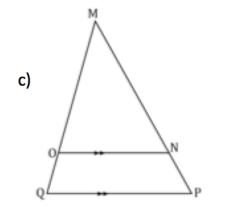
11. Are the following sets of triangles similar or not? If so, state the similarity proof.



Similar ______.

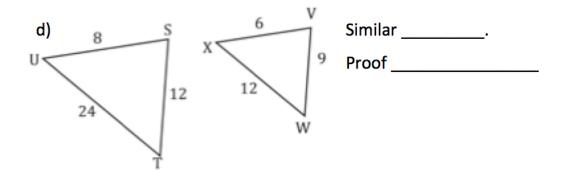
Proof _____



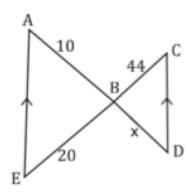


Similar ______.

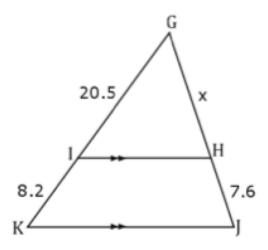
Proof _____



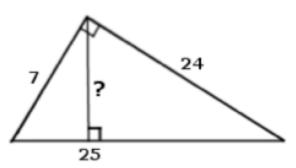
12. Find the missing value of \dot{x} .



13. Find the missing value of \dot{x} .



14. Find the value of '?'
Show all work and include all formulas.



15. Find the height of triangle below.

