1. 


2. Solve for obtuse angle C

3.

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,
$\mathrm{m} \overline{\mathrm{NQ}}=40 \mathrm{~cm}$
$\mathrm{m} \overline{\mathrm{NR}}=51 \mathrm{~cm}$
$m \overline{Q R}=77 \mathrm{~cm}$


To the nearest $\mathrm{cm}^{2}$, what is the area of pentagon NPQRS?

Weekend Tutorial Review Package - May 9, 2015

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

Isometric $\qquad$ .
Proof $\qquad$
b)

Isometric $\qquad$ .
Proof $\qquad$


Isometric $\qquad$ .
Proof $\qquad$
d)


Isometric $\qquad$ .

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

12. Find the missing value of ' $x$ '.

13. Find the missing value of ' $x$ '.

14. Find the value of '?'

Show all work and include all formulas.

15. Find the height of triangle below.


