PreAP PreCalculus Unit 6 Law of Sines and Cosines

6.5 Area of Oblique Triangles

Name Key Wou must draw a

Find the area of the following oblique triangles to the nearest tenth. You must draw a diagram and show all work.

1.
$$m\angle A = 42.5^{\circ}$$
, $b = 13.6$, $c = 10.1$
 410.0 H

5.
$$m\angle A = 56.8^{\circ}$$
, $b = 32.67$, $c = 52.89$

7.
$$m\angle A = 24^{\circ}$$
, $m\angle B = 56^{\circ}$, $c = 78.4$
1052.3

2.
$$a = 31, b = 23, c = 14$$

 149.8

4.
$$a = 22$$
, $b = 25$, $c = 30$

6.
$$a = 12$$
, $b = 12$, $c = 12$
(02.4

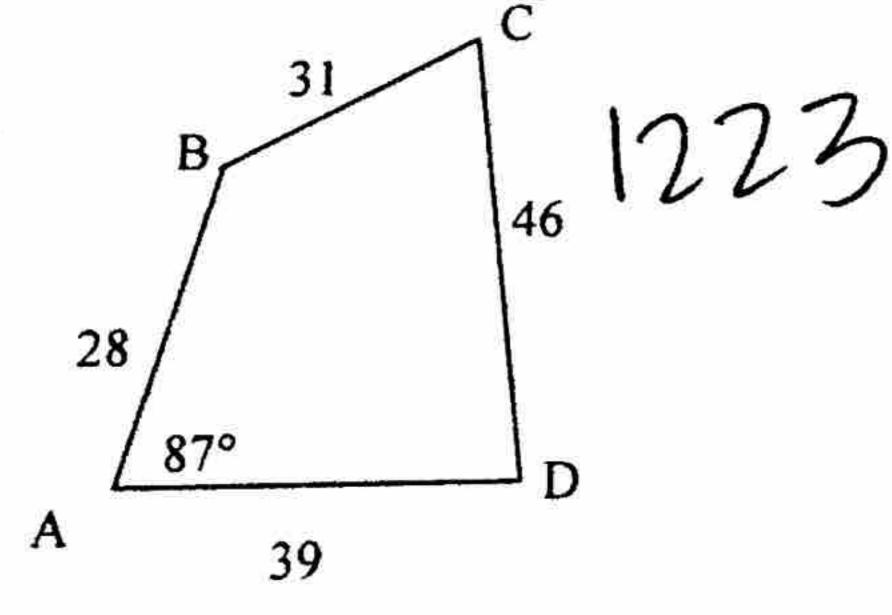
8.
$$a = 10$$
, $b = 24$, $c = 25$

9. A painter is going to apply a special coating to a triangular metal plate. Two sides measure 16.1 m and 15.2 m. She knows that the angle between these two sides is 125°. What is the area of the surface of the plate?

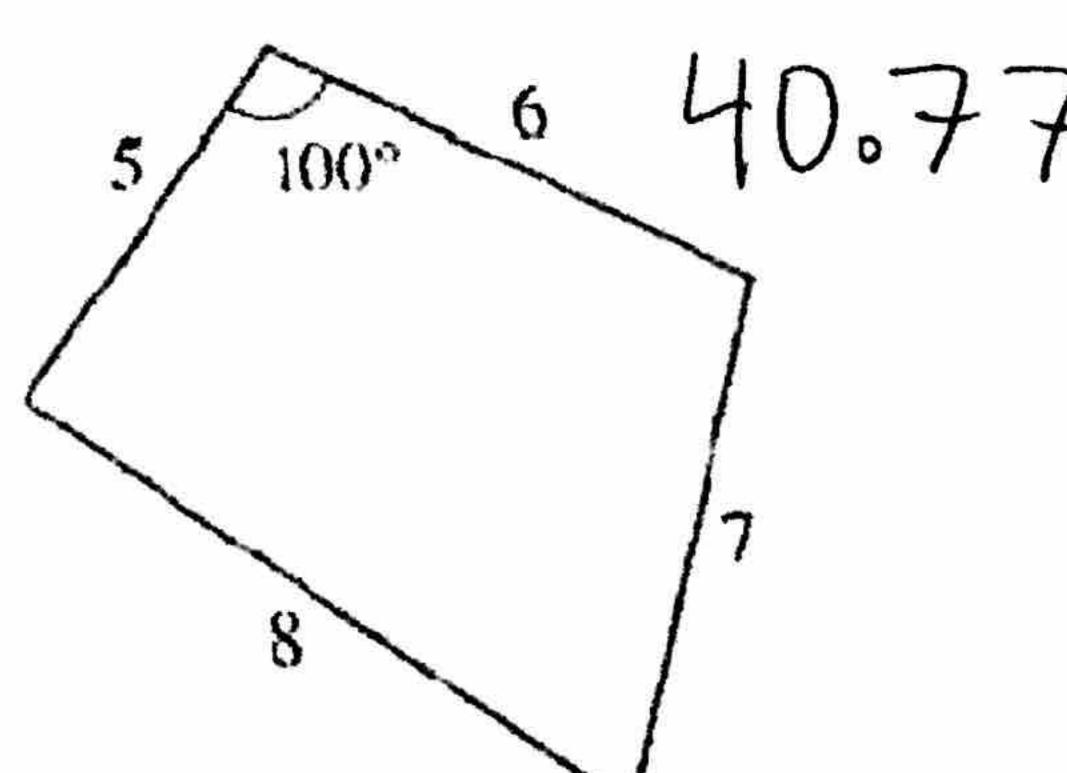
10. A real estate agent wants to find the area of a triangular lot. A surveyor takes measurements and finds that two sides are 52.1 m and 21.3 m, and the angle between them is 42.2°. What is the area of the lot?

Find the area of the figures to the nearest tenth of a square unit.

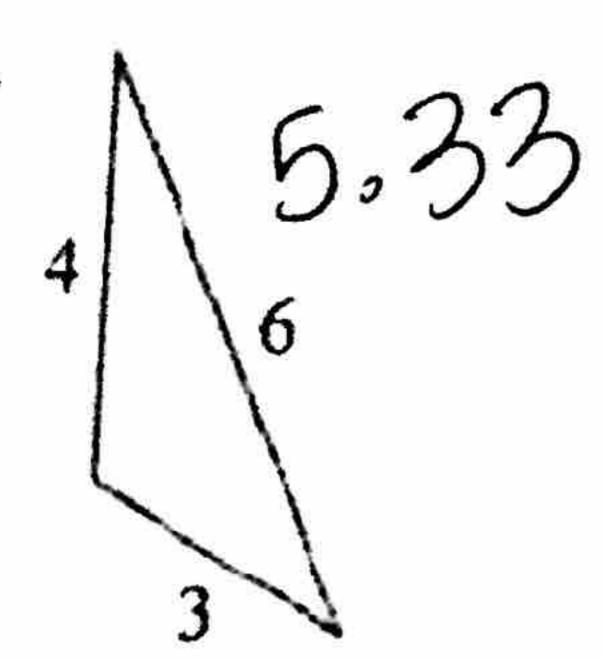
11.



33.



31



32

