Part 2: Geometry
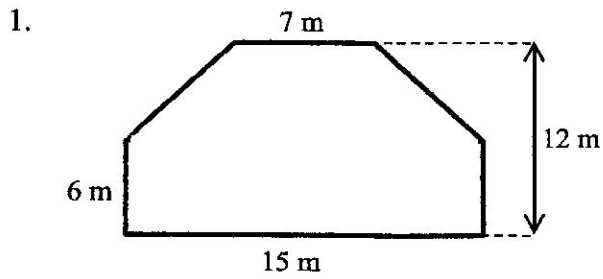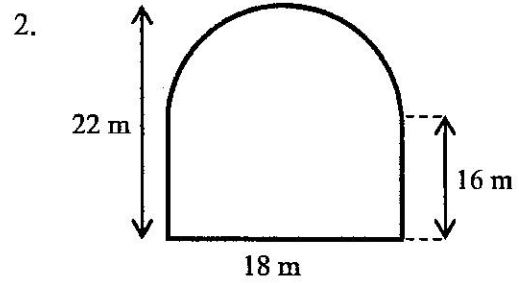
Calculate the area of the following shapes. It may be necessary to break up the figure into common shapes.

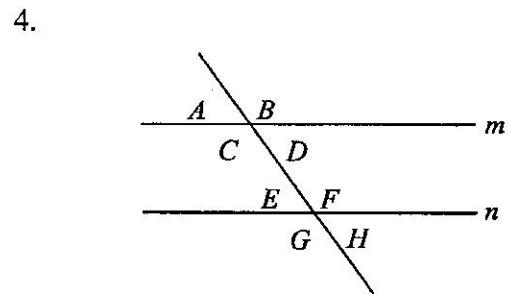1.

7 m

12 m

6 m

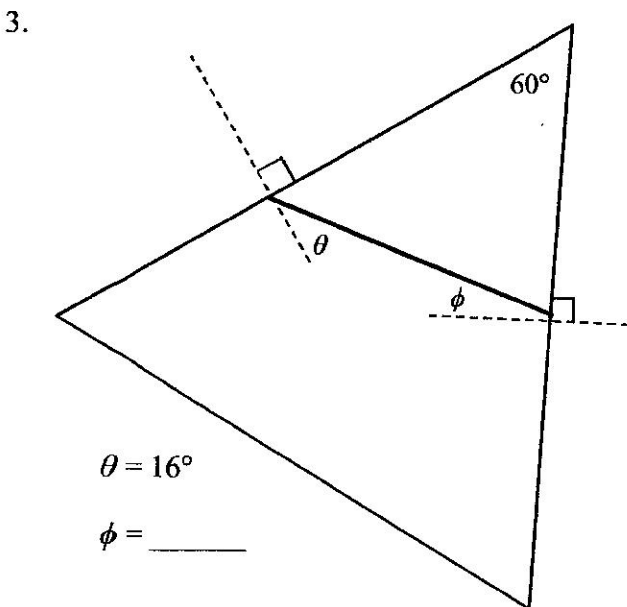15 m

Area = _____

2.

22 m

16 m

18 m

Area = _____

Calculate the unknown angle values for questions 3-6.

3.

60°

θ

ϕ

$\theta = 16°$

$\phi =$ _____

4.

A   B
C   D
_____ m

E   F
G   H
_____ n

Lines m and n are parallel.

$A = 75°$ $B =$ _____ $C =$ _____ $D =$ _____

$E =$ _____ $F =$ _____ $G =$ _____ $H =$ _____

5.

θ_5 θ_2
θ_4 θ_3

70°

θ_1 θ_1

$\theta_1 =$ _____

$\theta_2 =$ _____

$\theta_3 =$ _____

$\theta_4 =$ _____

$\theta_5 =$ _____

6.

B   A
C
D

$\theta = 37°$

θ

$A =$ _____ $B =$ _____

$C =$ _____ $D =$ _____