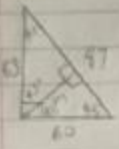
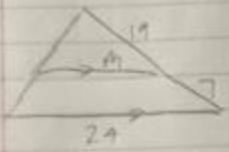
Geometry Test

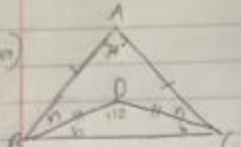
7a)



b)



9a)



ITT $\rightarrow \angle DCB = \angle DBC = b$

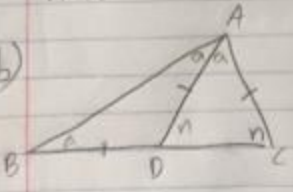
SATT $\rightarrow (180 - 110) \div 2 = b = 35°$

ITT $\rightarrow \angle ACB = \angle ABC = 35 + n$

SATT $\rightarrow (180 - 74) \div 2 = n + 35 = 53$

$n = 18$

b)



ITT $\rightarrow \angle ACD = n$

ITT $\rightarrow \angle BAD = a$

SATT $\rightarrow \angle ADB = 180 - 2a = 180 - n$

SATT $\rightarrow a = 180 \div 5 = 36$

$2a = n$

$a = 36$

$n = 72$

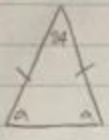
Geometry Test

1) Obtuse Angle

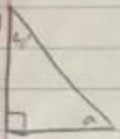
b) Reflex Angle

2)

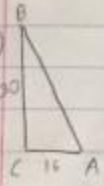
	By angles	By sides
a)	Obtuse triangle	Scalene triangle
b)	Right triangle	Isosceles triangle

3a) 

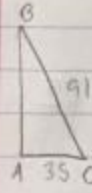
$(180-24) \div 2 = 79°$

b) 

$180-40-90=50°$

4a) 

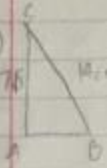
$\sqrt{(16^2+30^2)} = 34_{cm}$

b) 

$\sqrt{(91^2-35^2)} = 84_{cm}$

Geometry Test

c)

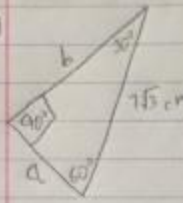


$\sqrt{(14^2 - (7\sqrt{5})^2)} = 5\sqrt{7}$ cm

5a) Regular septagon

b) Rhombus

6a)



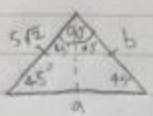
$30° - 60° - 90° = 1 - \sqrt{3} - 2$

$7\sqrt{3} \div 2 = \frac{7\sqrt{3}}{2}$

$b = \frac{7\sqrt{3}}{2} \times \sqrt{3} = 10\frac{1}{2}$ cm

$a = \frac{7\sqrt{3}}{2} \times 1 = \frac{7\sqrt{3}}{2}$ cm

b)



$45° - 45° - 90° = 1 - 1 - \sqrt{2}$

$b = 5\sqrt{2} \times 1 = 5\sqrt{2}$ cm

$a = 5\sqrt{2} \times \sqrt{2} = 10$ cm

Geometry Test

a) Square

b) Arrowhead

c) Line

d) Alternate Angles

e) skew lines