

Law of Cosines/Sines and Area

Solve the triangle. If you use the Law of Sines to start the problem, you need to check for a 2nd triangle.

1. $B = 26^\circ, b = 17\text{cm}, a = 12\text{cm}$

A= _____	a= 12cm	A= _____	a= 12cm
B = 26°	b= 17cm	B= 26°	b= 17cm
C= _____	c= _____	C= _____	c= _____

2. $P = 63^\circ, r = 40\text{cm}, p = 36\text{cm}$

P= 63°	p= 36cm	P= 63°	p= 36cm
Q = _____	q= _____	Q = _____	q= _____
R= _____	r = 40cm	R= _____	r = 40cm

3. $f = 19\text{km}, d = 9\text{km}, e = 12\text{km}$

F= _____	f= 19km	F= _____	f= 19km
D = _____	d= 9km	D = _____	d= 9km
E= _____	e = 12km	E= _____	e = 12km

4. $Z = 155^\circ, y = 35\text{cm}, z = 22\text{cm}$

Z= 155°	z= 22 cm	Z= 155°	z= 22 cm
X = _____	x= _____	X = _____	x= _____
Y= _____	y= 35 cm	Y= _____	y= 35 cm

5. Find the area: $a = 5, b = 9, C = 18^\circ$ _____