

Using Special Right Triangles



Section A Use the triangle diagrams to help complete the table for the exact trig values.

	0°	30°	45°	60°	90°
sin	0				1
cos	1				0
tan	0				

Section B Give the exact values.

1) $\sin 30 + \cos 60$	2) $\tan 45 + \cos 60$	3) $4 \sin 30 + \cos 0$
4) $2 \sin 60$	5) $8 \cos 45$	6) $(\sin 45)^2 + 3 \cos 60$
7) $(3 \tan 30)^2 + (\tan 60)^2$	8) $5 \sin 60 - 3 \cos 30$	9) $9 \sin 30 - 3 \sin 90 + 4(\cos 45)^2$

Section C Use the ratios of the given lengths to find the missing angles.

1)

a = _____

2)

b = _____

3)

c = _____

4)

d = _____

5)

e = _____

6)

f = _____