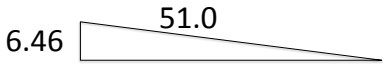
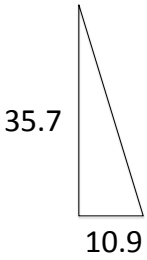
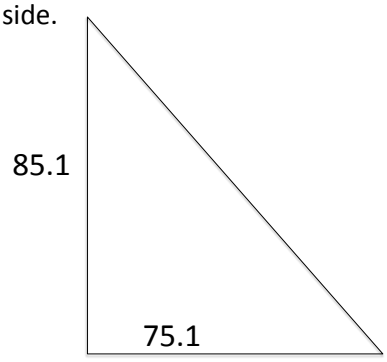
A.7. Find the length of the missing side.



A.8. Find the length of the missing side.

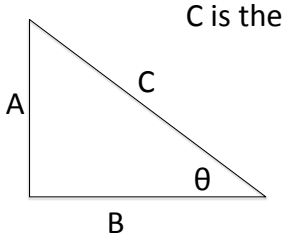


A.9. Find the length of the missing side.



Part B: Finding side lengths from angles

A is the opposite of θ.
B is the adjacent of θ.
C is the hypotenuse.



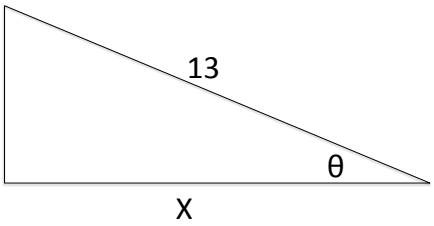
$$\sin\theta = \frac{\text{opposite}}{\text{hypotenuse}}$$

$$\cos\theta = \frac{\text{adjacent}}{\text{hypotenuse}}$$

$$\tan\theta = \frac{\text{opposite}}{\text{adjacent}}$$

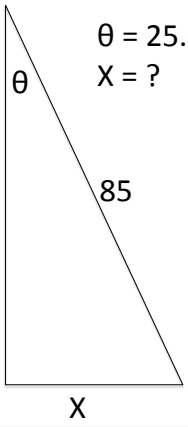
B.1

θ = 67.38
X = ?



B.2

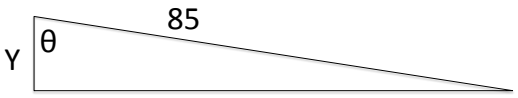
θ = 25.06
X = ?



B.3

θ = 81.20

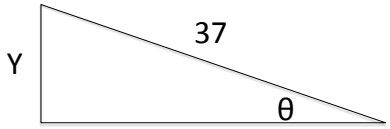
Y = ?



B.4

θ = 18.92

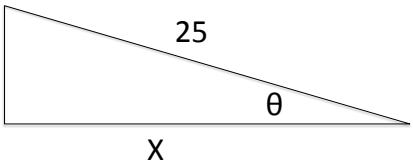
Y = ?



B.5

θ = 16.26

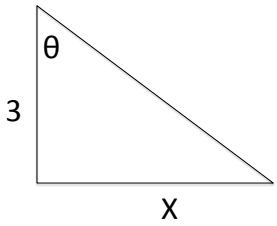
X = ?



B.6

θ = 53.13

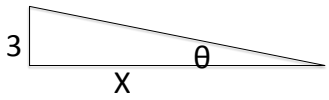
X = ?



B.7

θ = 11.31

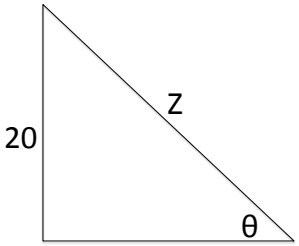
X = ?



B.8

θ = 43.60

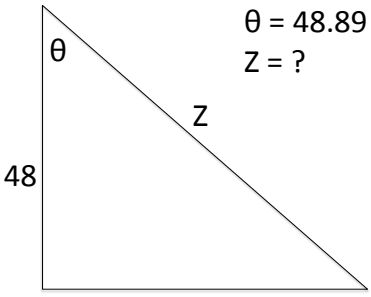
Z = ?



B.9

θ = 48.89

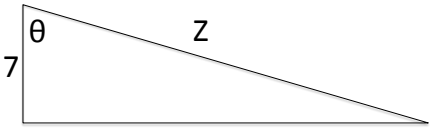
Z = ?



B.10

θ = 73.74

Z = ?



Answers

- A.1 5
- A.2 29
- A.3 36
- A.4 80
- A.5 48
- A.6 31.7
- A.7 50.6
- A.8 37.3
- A.9 113

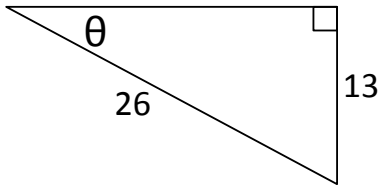
ANSWERS

- B.1 5.0
- B.2 36
- B.3 13
- B.4 12
- B.5 24
- B.6 4.0
- B.7 15
- B.8 29
- B.9 73
- B.10 25

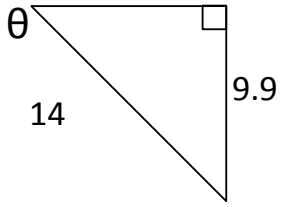
Part C: Inverse Trigonometric Functions

Finding the measure of an angle from the sides

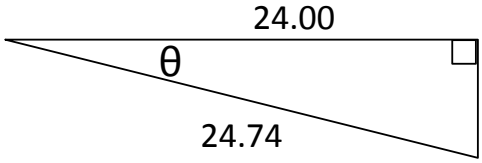
C.1



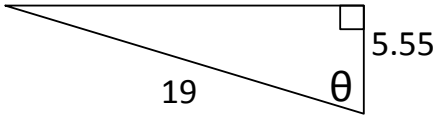
C.2



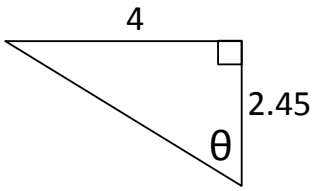
C.3



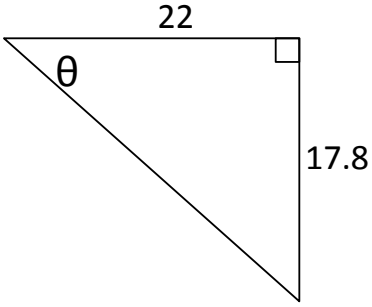
C.4



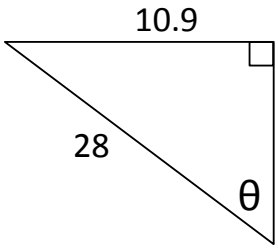
C.5



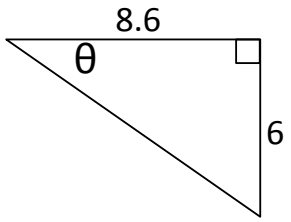
C.6



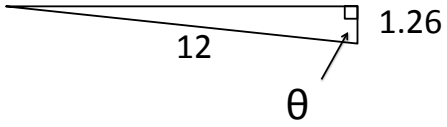
C.7



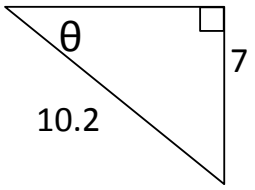
C.8



C.9



C.10

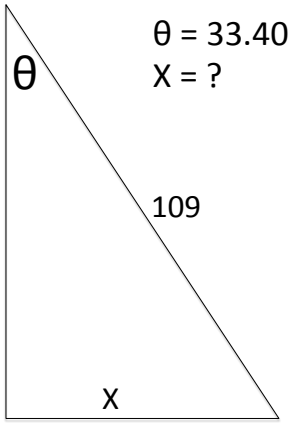


Finding Side Length From Angles 2

A trigonometric functions exercise

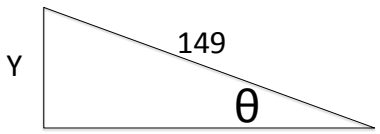
D.1

θ = 33.40 degrees
X = ?



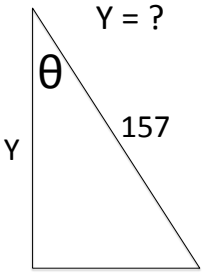
D.2

θ = 20.02 degrees
Y = ?



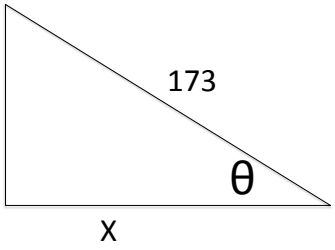
D.3

θ = 32.78 degrees
Y = ?



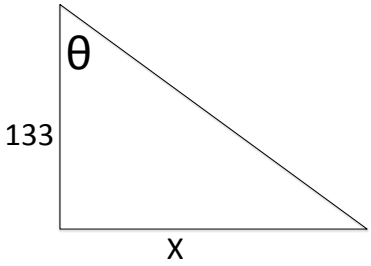
D.4

θ = 17.49 degrees
X = ?



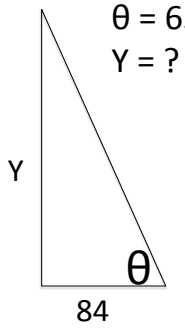
D.5

θ = 49.55 degrees
X = ?



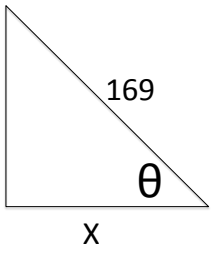
D.6

θ = 65.50 degrees
Y = ?



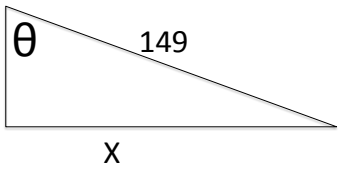
D.7

θ = 52.88 degrees
X = ?

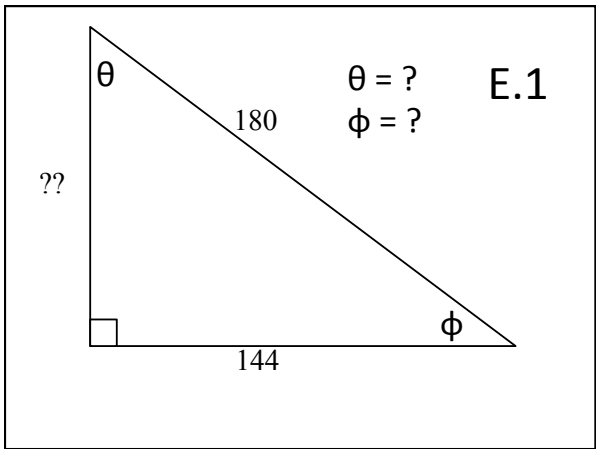


D.8

θ = 69.98 degrees
X = ?



PART E: Solving for triangle completely

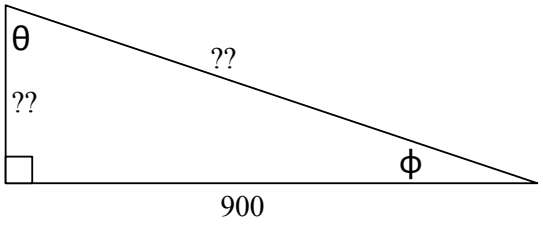


E.1

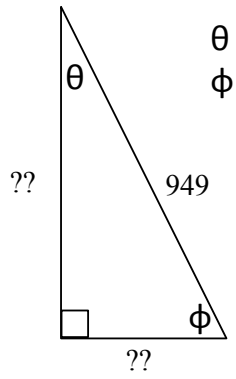
θ = ?
ϕ = ?

E.2

θ = ??
ϕ = 18.5

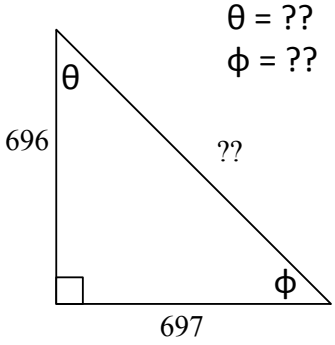


E.3



θ = 26.54
ϕ = ??

E.4



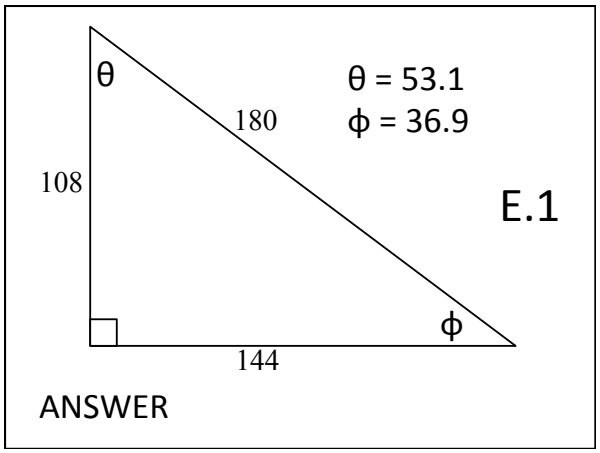
θ = ??
ϕ = ??

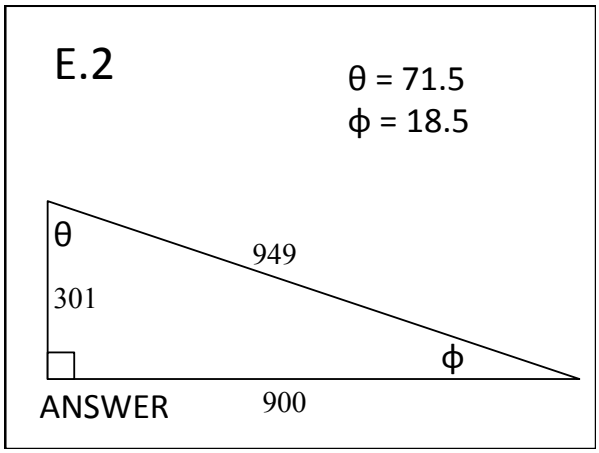
Answers

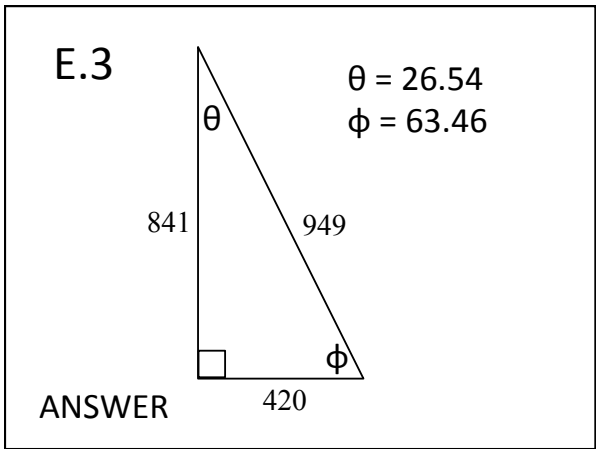
C.1 30
C.2 45
C.3 14
C.4 73
C.5 59
C.6 39
C.7 23
C.8 35
C.9 84
C.10 43

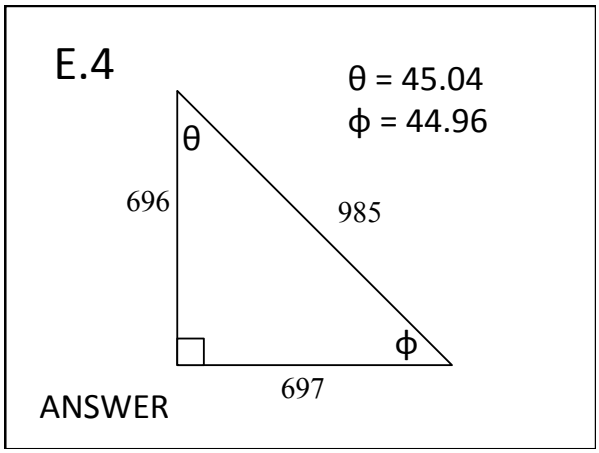
Answers

- D.1 60
- D.2 51
- D.3 132
- D.4 165
- D.5 156
- D.6 184
- D.7 102
- D.8 140


θ
180
108
144
ϕ
θ = 53.1
ϕ = 36.9
E.1
ANSWER


E.2
θ = 71.5
ϕ = 18.5
θ
949
301
ϕ
ANSWER
900


E.3
θ = 26.54
ϕ = 63.46
θ
841
949
ϕ
ANSWER
420


E.4
θ = 45.04
ϕ = 44.96
θ
696
985
ϕ
697
ANSWER