

























23.(a) AC =

(b) VO =

= 12.27

(c) BD = AC = 8.602

BO = x8.602 = 4301

∠VBO = θ

Cos θ = = 0.3308

θ = Cos-(0.3308) = 70.68

(d) VM = =

=

= 12.52

∠VMO = d

Cos d = = 0.1997

d = Cos-1(0.1997) = 78.480

24.(a) DCE = EDF (∠s in alternate segment)

= 420

1. BCE = BDF (∠s in the same segment)

= 420

= 240

1. DCB = DBF (∠s in alternate segment)

DBF = (AB =D)

= 660

1. CED = CBD (∠s in the same segment)

CBD = 180 – (60 + 60)(∠s on straight line)

CED = 540

1. BEF = BCD (ext. angle = opp. interior angle)

= 24 + 42

= 660