

Problem 3.9 Solutions:

a:

$\gamma = 14.6479^\circ$

verification: $\gamma = 14.6388^\circ$

b:

$\gamma_{\min} = -30^\circ$

c:

$r = 0.738552p$

verification: $r = 0.738796p$

d:

$r = 1.33333p$

verification: $r = 1.33333p$

e:

Yes, by using Equation 1.33:

$$r = a * (1 - e^2) / (1 + e * \cos(f)) \quad (\text{Eq. 1.33})$$

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