NAME: Kalev Cosgrave

Given p, r, and t are **TRUE** and that q, s, and v are **FALSE**, determine the truth values of each of the following compound propositions:

1. (p🡪q)🡪(p’🡪q’)

F🡪T

= T

1. [(pꓥq)→s]→[p→(q→s)]

(F🡪F) 🡪 (T🡪T) = T🡪T

= T

1. [rꓥ(sꓦt)]→[(rꓥs)ꓦ(rꓥt)]

TꓥT🡪FVT = T🡪T

= T

1. ┐{[(p↔q)ꓥ(r↔s)]ꓥ(pꓦr)}→(qꓦs)

┐((FꓥF ꓥ F) ꓥ T) 🡪 F = ┐(F ꓥ T) 🡪 F = ┐F 🡪 F

= F

1. (p→v)→{[p→(v→q)]}→(p→q)

F 🡪 (T🡪T)🡪F = F🡪 T 🡪 F

= F