

Question #228

Key: D

$$\frac{s_4}{r_4} = \hat{H}(y_4) - \hat{H}(y_3) = 0.5691 - 0.4128 = 0.1563.$$

$$\frac{s_4}{r_4^2} = \hat{V}[\hat{H}(y_4)] - \hat{V}[\hat{H}(y_3)] = 0.014448 - 0.009565 = 0.004883.$$

Therefore, $s_4 = \frac{(s_4 / r_4)^2}{s_4 / r_4^2} = \frac{0.1563^2}{0.004833} = 5.$