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(2)

$$\left(\sqrt{\frac{8 \times 9.27^2}{\chi_{0.05}^2(8)}}, \sqrt{\frac{8 - 9.27^2}{\chi_{0.05}^2(8)}} \right)$$

$$= \left(\sqrt{\frac{687.46}{15.51}}, \sqrt{\frac{687.46}{2.73}} \right)$$

$$= (6.66, 15.87)$$

(3)

$$\left(\frac{S_1^2}{S_2^2} \times \frac{1}{F_{\frac{\alpha}{2}}(n_1-1, n_2-1)}, \frac{S_1^2}{S_2^2} \times \frac{1}{1 - F_{\frac{\alpha}{2}}(n_1-1, n_2-1)} \right)$$

$$= \left(\frac{9.27^2}{21.15^2} \times \frac{1}{3.44}, \frac{9.27^2}{21.15^2} \times \frac{1}{\frac{1}{3.44}} \right)$$

$$= (0.06, 0.66)$$