

Solution - Num. Integration - Thermodynamics

Trap.	(0.5	336
	X 2	294.4
Simp. 1/3	3	266.4
	X 4	260.8
Simp. 3/8	6	260.5
	8	249.6
	X 10	193.6
Trap.	11	165.6

$$I = \frac{(2 - 0.5)}{2} (336 + 294.4) + \frac{(4 - 2)}{6} (294.4 + 4(266.4) + 260.8) +$$
$$\frac{(10 - 4)}{8} (260.8 + 3(260.5 + 249.6) + 193.6) + \frac{(11 - 10)}{2} (193.6 + 165.6)$$

$$I = 472.8 + 540.27 + 1488.525 + 179.6 = \boxed{2681.195 \text{ KJ}}$$