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Answer:
The twice as hot iron is 293°C. Consider a stick that is 273 + 10 units long. This is like a thermometer that extends from absolute zero (-273°C) to 10°C. Can you see that a stick twice as long is 2 × 283 = 566 units long? (Or temperature-wise, 566 K?) Subtract the 273 part and you have 566 - 273 = 293 units—likewise for the twice-as-hot 10°C iron.