

52. 答案： C

解題要點：

這題目是在考“平面幾何”。

一般解法：

$$\angle AGB = \angle GBE = x$$

$$\angle ABG = \angle GBE = x \quad (\text{Q } BG \text{ 平分 } \angle ABC)$$

$$\angle GAF = \angle FAE = \angle EAB = y$$

$$\angle GIF = \angle GAF + \angle AGB = y + x$$

$$\angle GHE = \angle AHB = 180^\circ - \angle HAB - \angle HBA = 180^\circ - y - x$$

$$\therefore \angle GIF + \angle GHE = (y + x) + (180^\circ - y - x) = 180^\circ$$