

$$\textcircled{7} \quad 100b^8 - 64 \quad \leftarrow \text{Common factor}$$

$$4(\underline{25b^8} - \underline{16}) \quad \leftarrow \text{Diff of Squares}$$

$$\boxed{4(5b^4 + 4)(5b^4 - 4)}$$

$$\textcircled{7} \quad \underline{100b^8} - \underline{64} \quad \leftarrow \text{Diff of Squares.}$$

$$(10b^4 + 8)(10b^4 - 8) \quad \leftarrow \text{Common factor}$$

$$2(5b^4 + 4) \cdot 2(5b^4 - 4)$$

$$\boxed{4(5b^4 + 4)(5b^4 - 4)}$$

⑤ Which of the following can be represented by a rectangle? (Which factors)

a) $y^2 + \underline{3y} + \underline{12}$ $-t- = 3$
 $-x- = 12$
 Not Possible $\begin{matrix} 1 \times 12 \\ 2 \times 6 \\ 3 \times 4 \end{matrix}$

b) $y^2 + \underline{12y} + \underline{5}$ $-t- = 12$
 $-x- = 5$
 Not Possible 1×5

c) $y^2 + \underline{8y} + \underline{15}$ $-t- = 8$
 $-x- = 15$
 $(y+3)(y+5)$ $\begin{matrix} 1 \times 15 \\ 3 \times 5 \end{matrix}$

d) $y^2 + \underline{14y} + \underline{3}$ $-t- = 14$
 $-x- = 3$
 Not Possible 1×3