

1.  $a + b = 3$ ,  $ab = 1$  일 때,  $a^2(a - b) + b^2(b - a)$  의 값은?

- ① 13      ② 15      ③ 17      ④ 18      ⑤ 20

해설

$$(a - b)^2 = (a + b)^2 - 4ab = 3^2 - 4 \times 1 = 5$$

$$\begin{aligned}\therefore (\text{준식}) &= a^2(a - b) - b^2(a - b) \\&= (a - b)(a^2 - b^2) \\&= (a - b)^2(a + b) \\&= 5 \times 3 = 15\end{aligned}$$