

1.  $20x^2 - ax - 9 = (4x - 3)(5x - b)$  일 때,  $a + b$  의 값을 구하면?

① -3

② 3

③ -1

④ 0

⑤ 1

2. 다음 중 인수분해가 바르게 된 것은?

①  $4a^2 - 2ab = 2a(a - b)$

②  $x^2 + 20x - 100 = (x + 10)^2$

③  $-x^2 + 1 = (x + 1)(-x - 1)$

④  $x^2 - 7x + 12 = (x - 2)(x - 6)$

⑤  $10x^2 + 23x - 21 = (x + 3)(10x - 7)$

3.  $(-3x + 4y)(3x + 4y) - \left(\frac{1}{4}x + 5y\right)\left(\frac{1}{4}x - 5y\right)$  를 간단히 하면?

①  $-\frac{111}{16}x^2 + 25y^2$

③  $-\frac{145}{16}x^2 + 41y^2$

⑤  $-\frac{137}{8}x^2 + 31y^2$

②  $-\frac{111}{16}x^2 + 16y^2$

④  $-\frac{137}{4}x^2 + 41y^2$

4.  $(a - b - 2c)(a - b + 5c) - 30c^2$  을 인수분해하면?

①  $(a - b + 3c)(a - b - 7c)$

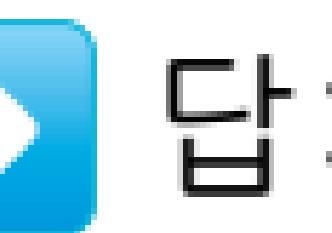
②  $(a - b + 4c)(a - b + 5c)$

③  $(a - b - 5c)(a - b + 8c)$

④  $(a - b + 5c)(a - b - 8c)$

⑤  $(a - b - 2c)(a - b + 4c)$

5.  $b - a = \sqrt{3}$ ,  $ab = 1$  이고,  $(b + a)b^2 - (a + b)a^2 = m\sqrt{3}$ 이라 할 때,  
 $m$ 의 값을 구하여라.



답:  $m =$  \_\_\_\_\_