

1. 분수 $\frac{7}{22}$ 과 $\frac{11}{27}$ 을 소수로 나타냈을 때, 각각의 순환마디를 a, b 라 하면 $a + b$ 의 값은?

① 725

② 425

③ 365

④ 92

⑤ 65

2. $\frac{1}{2} < 0.\dot{x} < \frac{3}{4}$ 을 만족하는 자연수 x 를 모두 구하여라.



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3. $16^4 = a$ 일 때, 64^3 을 a 를 이용하여 나타내어라.



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4. $8a^2b^2 \times 2a^2b \div (-2a^2b)^3 \times 3a^4b^2$ 을 간단히 하면?

① $-3a^2b^2$

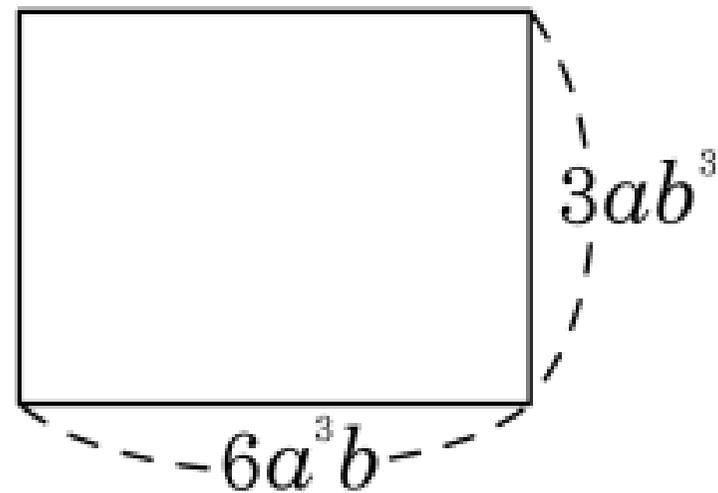
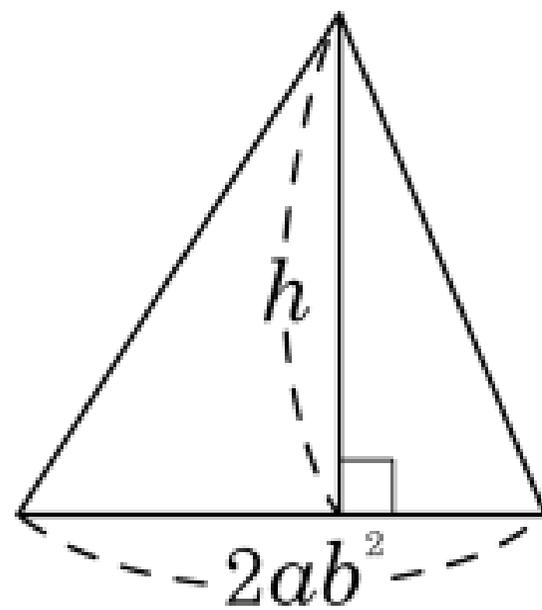
② $3a^2b^2$

③ $-6a^2b^2$

④ $6a^2b^2$

⑤ $-8a^2b^2$

5. 다음 삼각형과 직사각형의 넓이가 같을 때, 삼각형의 높이를 구하여라.



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6. $(2x - 5y - 1) + (3x - 3y + 2)$ 를 간단히 하면?

① $2x - 3y + 2$

② $2x + 5y - 1$

③ $5x - 6y + 4$

④ $5x - 8y + 1$

⑤ $5x - 5y + 3$

7. 다음 식을 간단히 하여라.

$$3y^2 - [y^2 - \{2y - 5 - (y + 3)\} - 3y^2]$$



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8. $x = 1.222 \dots$ 일 때, $10x - x$ 의 값은?

① 1.1

② 1.2

③ 11

④ 12

⑤ 12.22

9. 다음 중 순환소수를 분수로 나타내는 계산과정의 옳지 않은 것을 모두 고르면?

$$\textcircled{1} \quad 0.\dot{5}\dot{1} = \frac{51}{99}$$

$$\textcircled{3} \quad 1.2\dot{3} = \frac{123 - 12}{90}$$

$$\textcircled{5} \quad 3.\dot{2}0\dot{5} = \frac{205}{999}$$

$$\textcircled{2} \quad 0.4\dot{0}\dot{3} = \frac{403 - 2}{99}$$

$$\textcircled{4} \quad 2.5\dot{1}\dot{8} = \frac{2518 - 25}{990}$$

10. 다음 수를 작은 것부터 차례로 늘어 놓으면?

$$\textcircled{\text{㉠}} 0.352$$

$$\textcircled{\text{㉡}} 0.35\dot{2}$$

$$\textcircled{\text{㉢}} 0.3\dot{5}2$$

$$\textcircled{\text{㉣}} 0.\dot{3}5\dot{2}$$

$$\textcircled{1} \textcircled{\text{㉠}} \rightarrow \textcircled{\text{㉡}} \rightarrow \textcircled{\text{㉢}} \rightarrow \textcircled{\text{㉣}}$$

$$\textcircled{2} \textcircled{\text{㉠}} \rightarrow \textcircled{\text{㉣}} \rightarrow \textcircled{\text{㉢}} \rightarrow \textcircled{\text{㉡}}$$

$$\textcircled{3} \textcircled{\text{㉠}} \rightarrow \textcircled{\text{㉡}} \rightarrow \textcircled{\text{㉣}} \rightarrow \textcircled{\text{㉢}}$$

$$\textcircled{4} \textcircled{\text{㉠}} \rightarrow \textcircled{\text{㉢}} \rightarrow \textcircled{\text{㉡}} \rightarrow \textcircled{\text{㉣}}$$

$$\textcircled{5} \textcircled{\text{㉠}} \rightarrow \textcircled{\text{㉣}} \rightarrow \textcircled{\text{㉡}} \rightarrow \textcircled{\text{㉢}}$$