

stress test

1. $\frac{3^5}{9^2} = ?$

① 35 ÷ 92 = 1
 ② $(x^2)^3 \times (x^3)^4 = x^{18}$
 ③ $\left(\frac{x^4}{y^2}\right)^3 = \frac{x^{12}}{y^6}$
 ④ $(x^2 y^5)^4 = x^8 y^{20}$
 ⑤ $(a^2 b)^3 \div a^2 = a^4 b^3$

5. $(3x^2 - 9xy) \div 3x = (6xy - 8y^2) \div (-2y)$ è ¥¼ ê3 i °í è©'?

① 4x - 7y ② 4x + 7y ③ 2x - 7y
 ④ 2x + 7y ⑤ 2x - y

6. $3x(x - 5) + 4x(1 - 3x) = ax^2 + bx + c$ i ¼ è , abc i ê° i ?

① 0 ② -11 ③ -20 ④ 99 ⑤ -99

2. $\left(\frac{a^2 b^{\square}}{a^{\square} b^2}\right)^4 = \frac{b^8}{a^4}$ i i \square i i ê3 pí pù i ¼ è i è xì 'ê° i è ¥¼ êpí -í i -è ¼.

7. $(x - 4)(x - 6) = x^2 + Ax + B$ i ¼ è , i i A, B i í © A + B i ê° i ?

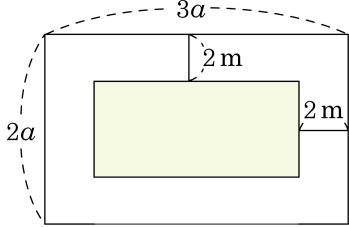
① -24 ② -10 ③ 4
 ④ 10 ⑤ 14

3. $-(2x^2 - ax + 5) + (4x^2 - 3x + b) = cx^2 + 6x + 7$
 (è „, a, b, c è i i) è ¥¼ è§ i ±í è a, b, c i è i - 2a + b - c i ê° i êpí -í i -è ¼.

4. $x = 2$, $y = -3$ i ¼ è , $2x + 5y - (3y - 3x)$ è ¥¼ ê3 i °í è©'?

① -8 ② -4 ③ 1 ④ 2 ⑤ 4

8. $\hat{e} \cdot \hat{e}^{1/4} \hat{e}^{3/4}$ \hat{e}° \hat{i} \hat{i} \hat{s} \hat{i} $\hat{-}\hat{e}^{\circ}$ \hat{i} \hat{e}^{α} \hat{i} \hat{i} \hat{e}^3 \hat{p} \hat{i} \hat{i} \hat{i} $\hat{-}\hat{i}$ \hat{i}
 $2\hat{m}$, \hat{i} $\hat{\pm}$ \hat{e} $\hat{Y}^{1/4}$ \hat{e} \hat{s} \hat{e} \hat{x} \hat{i} \hat{e} \hat{x} . \hat{i} $\hat{\pm}$ \hat{e} $\hat{Y}^{1/4}$ \hat{i} \hat{i} \hat{i} \hat{e}^3 \hat{p} \hat{i} \hat{i} \hat{e} \hat{i} \hat{e} ?



① $(6a^2 - 6a + 4)$ m²

② $(6a^2 - 12a + 6)$ m²

③ $(6a^2 - 20a + 6)$ m²

④ $(6a^2 - 20a + 16)$ m²

⑤ $(6a^2 - 25a + 16)$ m²

9. $(2x - a)^2 = 4x^2 + 12x + b$ \hat{i} $\hat{1/4}$ \hat{e} , $a + b$ \hat{i} \hat{e}° \hat{i} ? (\hat{e}° , a , b \hat{e} \hat{i} \hat{i})

① -12 ② -6 ③ 6

④ 12 ⑤ 18

10. \hat{e} \hat{x} \hat{i} $\boxed{\quad}$ \hat{i} \hat{i} \hat{e} \hat{s} \hat{i} \hat{i} $\hat{e}^{Y^{1/4}}$ \hat{i} $\hat{e}^{1/4}$.

$$\left(-3x\boxed{\quad}y^2\right)^3 = -27x^{12}y\boxed{\quad}$$

11. \hat{e} \hat{x} \hat{i} \hat{x} \hat{i} $\hat{3}$ \hat{i} \hat{e}^2 \hat{i} ?

① $4 \times (-2)^3 = 32$

② $(-2)^2 \times (-2)^2 = -16$

③ $(-2)^2 \times (-8) = -32$

④ $9 \times 3^2 = 3^3$

⑤ $(-3) \times (-3)^3 = -3^4$

12. $128^{2a-1} \div 16^{a+2} = 8^{3a-4}$ $\hat{e}^{Y^{1/4}}$ \hat{e} \hat{s} \hat{i} $\hat{\pm}$ \hat{i} \hat{e} \hat{a} \hat{i} \hat{e}° \hat{i} $\hat{e}^{\mu-i}$ \hat{i} $\hat{-}\hat{e}^{1/4}$.

13. $\left(\frac{x^b y^3}{x^5 y^a}\right)^8 = \frac{x^8}{y^{16}}$ \hat{i} $\hat{1/4}$ \hat{e} , $b - a$ \hat{i} \hat{e}° \hat{i} $\hat{e}^{\mu-i}$ \hat{i} $\hat{-}\hat{e}^{1/4}$.

14. \hat{i} \hat{i} \hat{a}, b \hat{i} \hat{e} \hat{i} \hat{i} $\hat{-}$ $3x - 5y - \{y - 2(2x + 3y)\} = ax + by$ \hat{i} $\hat{1/4}$ \hat{e} , $a + b$ \hat{i} \hat{e}° \hat{i} $\hat{e}^{\mu-i}$ \hat{i} $\hat{-}\hat{e}^{1/4}$.

15. ë øì ë³'ê₃[°] ì ø ì 'í[°]ì ì ë^a''ë ë^a ê^o ì ,ê^o ?

$$\boxed{\text{ë}^3' \hat{\text{e}}_3^{\circ}}$$

- Ⓐ 4x² - 5x
- Ⓑ x(4x - 4) + 2 - 4x²
- Ⓒ $\frac{1}{x^2} - x$
- Ⓓ (2 - 4x + 3x²) - 2(x² - 4x + 1)
- Ⓔ $\left(\frac{1}{2}x^2 + 4x - 1\right) - \left(-1 - 4x - \frac{1}{3}x^2\right)$

- ① 1 ê^o
- ② 2 ê^o
- ③ 3 ê^o
- ④ 4 ê^o
- ⑤ 5 ê^o

16. í ë³ì ê₃, ì 'ê^o xm ì , ì -ê^o í ì ë^a''ì ì í ë "ì
ê^o ëj ë 2 m ë§ í ¼ ë ë!-ê³, ì ,ëj ë 3 m ë§ í ¼
ì ø ì ¼ ë , í ë "ì ë ì 'ë ?

- ① (x² - 9) m²
- ② (x² - x - 6) m²
- ③ (x² + x - 6) m²
- ④ (x² - 4x + 4) m²
- ⑤ (x² + 6x + 9) m²

17. $81^4 \div 27^n = 9^2$ ì ¼ ë , n ì ê^o ì êµ-í ì -ë ¼.

18. ì (x²)⁴ × y³ × x × (y³)² ì ê^o ë "í í ë©'?

- ① x¹⁰y⁹
- ② x⁹y¹⁰
- ③ x⁹y⁹
- ④ x⁸y⁹
- ⑤ x⁸y⁸

19. ì 'ë ø ì A ì 2x² + 3x - 2 ë¥ ¼ ë í 'í ¼ í ê² ì
ì ê^a »í ì -ë ¼ ë ë -5x² + 3x + 2 ê^o ë ì ë ø.
ë^o ë ¥'ê² ê³ ì 'í ê² ë³ ¼ ë ?

- Ⓐ -3x² + 6x
- Ⓑ -3x² - 6x
- Ⓒ -x² + 9x - 2
- Ⓓ x² + 9x - 2
- Ⓔ -x² - 9x - 2

20. $\frac{2x+y}{4} + \frac{x+3y}{9} = ax + by$ ì ¼ ë , ì ì a, b ì í
a + b ì ê^o ì ?

- Ⓐ $\frac{41}{36}$
- Ⓑ $\frac{7}{6}$
- Ⓒ $\frac{43}{36}$
- Ⓓ $\frac{11}{9}$
- Ⓔ $\frac{5}{4}$

21. 2(2x + 1)² - (x + 4)(x - 4) ë¥ ¼ ê^o ë "í í ë©'?

- Ⓐ 15x² + 16x + 20
- Ⓑ 15x² + 16x - 12
- Ⓒ 7x² + 8x - 14
- Ⓓ 7x² + 8x + 18
- Ⓔ 7x² + 4x + 17

22. $x = \frac{1}{9}$ ì ¼ ë , $x^{\frac{1}{x}}$ ì 3 ì ê± ë -ì ê³ ± ì ¼ ëj
ë í ë 'í ¼.

23. $\ddot{\text{e}}$ $\ddot{\text{x}}\ddot{\text{i}}$ $\ddot{\text{e}}$ $\pm\ddot{\text{i}}$ $\ddot{\text{i}}$ $\ddot{\text{e}}\ddot{\text{s}}$ $\ddot{\text{j}}\ddot{\text{i}}\pm\ddot{\text{i}}$ $\ddot{\text{e}}$ a , b $\ddot{\text{i}}$ $\ddot{\text{e}}$ $\ddot{\text{i}}$ $\ddot{\text{i}} \rightarrow 2a - 3b \ddot{\text{i}}$
 $\ddot{\text{e}}^\circ \ddot{\text{i}} ? (\ddot{\text{e}}^\circ, n \ddot{\text{i}} \ddot{\text{i}} \ddot{\text{i}} \ddot{\text{o}} \ddot{\text{i}})$

$$2^a \times 4^2 \div 8 = 2^5$$

$$(-1)^{n+2} \times (-1)^{n+3} = b$$

- ① 11 ② -11 ③ -5
④ 5 ⑤ 8

24. n ì ́ ì ́ ò ́ ì ¼ ē , ē xì ́ ì ́ ë§ lì±í ē $a+b$ ì ́ ë ́ ì
êµ¬í ́ ì ́ ë ¼.

$$(-1)^n \times (-1)^{n+1} = a, \quad (-1)^{n-1} \div (-1)^n = b$$

25. $\frac{2x^2 - 5x + 4}{3}$ i i ' e ø x i i e í ' i $^{1/4}$ í e² i
 i e^a »í i - e¹¹/i e e $\frac{x^2 - 19x + 5}{6}$ e i e ø x.
 e^o e ¥' e² e³ i °í e µi - e C'?

$$\textcircled{1} \quad \frac{x^2 - 24x + 5}{6}$$

$$\textcircled{2} \quad \frac{3x^2 - 2x + 5}{6}$$

$$\textcircled{3} \quad \frac{7x^2 - x + 5}{6}$$

$$\textcircled{4} \quad \frac{7x^2 - x + 9}{6}$$

$$\textcircled{5} \quad \frac{7x^2 - x + 11}{6}$$