



ورقة إجابة

العام الدراسي ٢٠ / ٢٠

الاختبار:

المبحث:

التاريخ:

الاسم:

الصف والشعبة:

المدرسة:

26

① $f^3 g^2$ ✓

② x

③ x

④ x

⑤ ✓

⑥ ✓

⑦ x

⑧ ✓

⑨ $(0.2)^5$

١٠) u

١١) y^4

١٢) $\left(\frac{1}{3}\right)^{14}$

١٣) q^6

١٤) m^4

١٥) $a^2 b^7$

١٦) b^3

⑪ $\frac{4^2}{5^2} = \frac{16}{25}$

١٨) $(3)^{-2} = \frac{1}{3^2} = \frac{1}{9}$

$(-3)^2 = 9$

١٩)

صحيح

$-r \times -r \times r = r^3$

$r \times r \times r = r^3$

٢٠)

$(a^6 \times a^n) = \frac{a^{12}}{a^n}$

$a^{6+n} = a^{12-n}$

$6+n = 12-n$

$-6 + n -6 + n$

$n+n = 6$

$\begin{matrix} n & m \\ (1, 5) \\ (2, 4) \\ (3, 3) \\ (4, 2) \\ (5, 1) \end{matrix}$

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① $(85 - 4) \div (9 - 6)$

$81 \div 3 = 27$

② $(12 - 9) \times (4 - 20)$

$= 3 \times -16$

$= -48$

③ $\frac{2 + 9}{1} = 11$

④ $\left(\frac{20}{4}\right)^3 - 8$

$125 - 8 = 117$

5) $4 - 2 \times (2^2 \div 2^2) = 2$

6) $2^4 \div (2 \times 3 - 2) = 4$

7) $(2^3 - 2^2) \times (8 - 6) = 8$

8) $(2 + 3^2) \times 2 - 2 = 20$

9) $20 \div ((11 - 9) \times 2)$

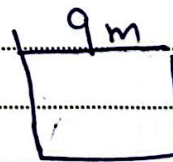
10) $40 \div (40)$

$20 \div 4 = 5$ الجواب

$= 1$ الجواب

11) $(2 + 1) \times 9^n$

$3 \times 81 = 243$



المساحة

12) $(10 \div 2) + (6 - 2) + 3$

(28)

① $5x$

② $2xy$

③ $x+y+2$

④ $x-2y$

⑤

5) $x+8$

6) $2x+25$

7) $x+x+12 = 2x+12$

8) $h-5x$

9) $6 \times (2)^2 + (2-8)$
 $6 \times 4 + -6$
 $24 + -6 = 18$

10) $(12+(-3)^2) \div -3 - 1$
 $12+9$
 $21 \div -3 - 1$
 $-7 - 1 = -8$

11) $(5 \times 3 - 9)^2 \div (8 - -1)$
 $(15-9)^2$
 $36 \div 9 = 4$

12) $(3^2 - 2 \times -4) \div (3 + -4)$
 $(9 - -8) \div -1$
 $17 \div -1$
 $= -17$

13) $4x^2y^3$

14) $6w^3v^3$

15) $2c^{1+1}d^{3+1}$
 $2c^2d^4$

16) $(-3 \times 6)(x^{1+2}y^{3+1})$
 $-18x^3y^4$

17) $b+b+b+b = 4b$

$4b - 7$

$4 \times 20 - 7$

$80 - 7 = 73$

$40 - 7 = 33$

$30 - 7 = 23$

2a

$$\textcircled{1} 3b + 7b^2 - 4$$

$$\textcircled{2} (2n^3 + 3n^2) + (8n - 6n) + 1$$

$$5n^2 + 2n + 1$$

$$\textcircled{3} (3x^3 - 8x^3) + (-6y - 2y) + 4$$

$$-5x^3 - 8y + 4$$

$$\textcircled{4} (2c^3 - 5c^3) + (5d + 3d) + 9$$

$$-3c^3 + 8d + 9$$

$$\textcircled{5} 2a + 7b + 6b - a + 8$$

$$a + 13b + 8$$

$$(4a + 14b + 10) - (a + 13b + 8)$$

$$3a + b + 2$$

$$\textcircled{6} 2c - d + 3d - c + 1 + 2c - d$$

$$3c + d + 1$$

$$(4c - 2d + 5) - (3c + d + 1)$$

$$c - 3d + 4$$

$$\textcircled{7} (0.5x^2 + 4x) + (0.5x^2 - 10x + 2)$$

$$8) (2b^3 + 2b + 1) - (b^3 + b)$$

$$9) 1x + 1x + 2 = 2x + 2$$

$$2(x + 1)$$

$$10) x + x + 3 + 2(x + 3)$$

$$2x + 6$$

$$4x + 9$$

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٣٥

① $3w^3 - 12wu$

② $-2d^2 + 8db^3$

③ $(x+4)(2x-3)$

④ $(3x-2)(1+x)$

$$2x^2 - 3x + 8x - 12$$

$$2x^2 + 5x - 12$$

$$3x + 3x^2 - 2 - 2x$$

$$x + 3x^2 - 2$$

⑤ $(x^2+4)(2y-x)$ $x=1, y=3$

⑥ $(y^2-4)(x+2y)$ $x=5, y=-1$

$$2x^2y + 8y - x^3 - 4x$$

$$(2 \times 1^2 \times 3) + (8 \times 3) - (1)^3 - 4(1)$$

$$y^2x + 2y^3 - 4x - 8y$$

$$((-1)^2 \times 5) + (2 \times (-1)^3) - 4 \times 5 - (8 \times -1)$$

$$6 + 24 - 1 - 4$$

$$25$$

$$5 + -2 - 20 + 8$$

$$-9$$

⑦ $(3x+2y)^2$ $x=1, y=-3$

⑧ $(2x-y)^2$ $x=-3, y=2$

$$9x^2 + 12xy + 4y^2$$

$$9 + -36 + 36$$

$$=9$$

$$4x^2 - 4xy + y^2$$

$$36 - 24 + 4$$

$$16$$

⑨ $3b$

10) $(3x+y)(x+2y)$

⑪ $(2a+2b)(3+b)$

$$6a + 2ab + 6b + 2b^2$$

$$6a + 2ab + 6b + 2b^2$$

⑫ $(3n+3m)(4+n)$

$$12n + 3n^2 + 12m + 3m^2$$