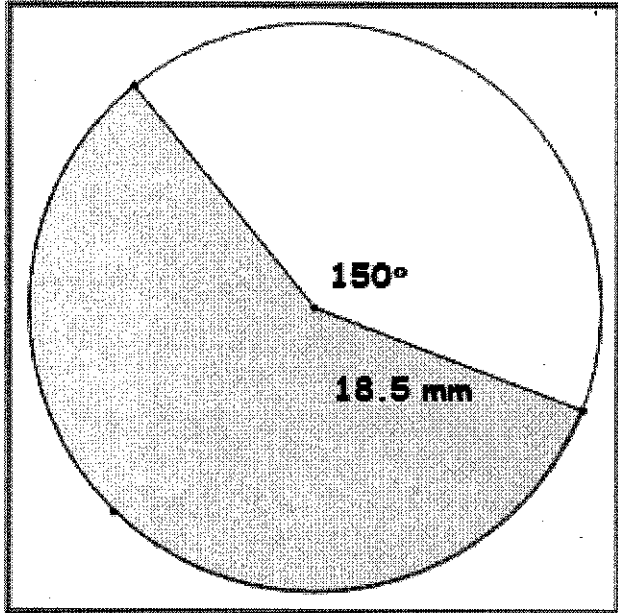


Teacher: Ms. Kantwill

Name: _____

1.

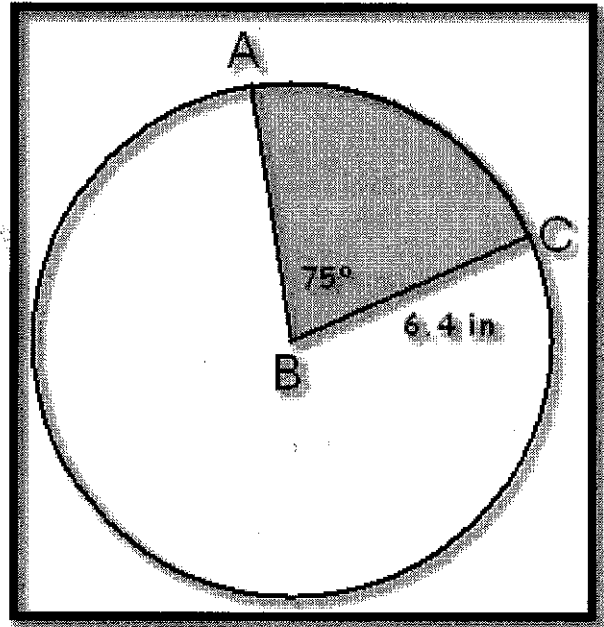
What is the area of the shaded sector in the diagram below?
Round the answer to the *nearest hundredth*.



1. 1075.21 mm² 3. 723.43 mm²
2. 448.00 mm² 4. 627.21 mm²
-

2.

From the diagram below, find the area of the shaded sector.
Round your answer to the nearest hundredth.



1. 101.87 in² 3. 64.34 in²
2. 26.81 in² 4. 8.38 in²
-

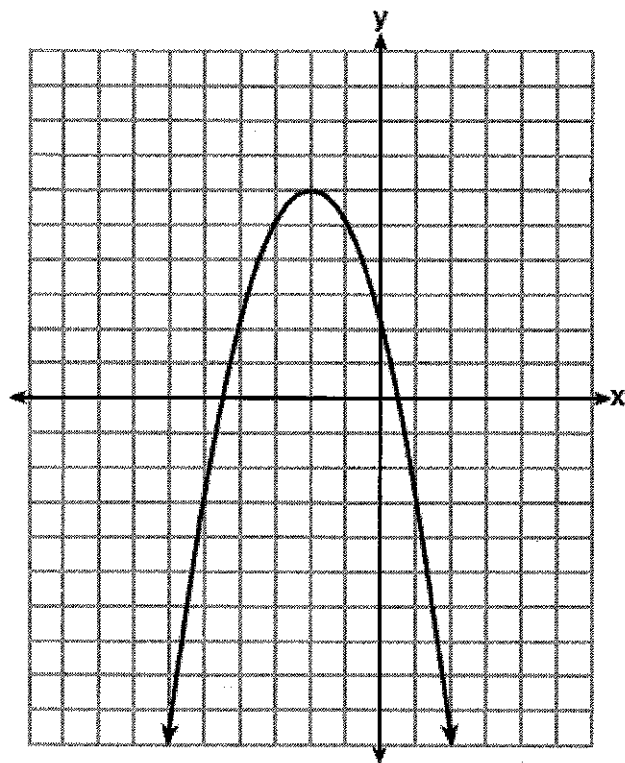
3.

The discriminant of a quadratic equation is 24. The roots are

1. imaginary
2. real, rational, and equal
3. real, rational, and unequal
4. real, irrational, and unequal
-

4.

What are the coordinates of the vertex and the equation of the axis of symmetry of the parabola shown in the graph below?



1. (0,2) and $y = 2$
 2. (0,2) and $x = 2$
 3. (-2,6) and $y = -2$
 4. (-2,6) and $x = -2$
-

5.

The expression $9a^2 - 64b^2$ is equivalent to

1. $(9a - 8b)(a + 8b)$
 2. $(9a - 8b)(a - 8b)$
 3. $(3a - 8b)(3a + 8b)$
 4. $(3a - 8b)(3a - 8b)$
-

6.

Factored completely, the expression $3x^3 - 33x^2 + 90x$ is equivalent to

1. $3x(x^2 - 33x + 90)$
 2. $3x(x^2 - 11x + 30)$
 3. $3x(x + 5)(x + 6)$
 4. $3x(x - 5)(x - 6)$
-

7.

Factor completely: $x^3 - 49x$

1. $x(x + 7)(x + 7)$
 2. $(x - 7)(x + 7)$
 3. $x(x + 7)(x - 7)$
 4. $x(x - 7)(x - 7)$
-

8.

The roots of the equation $3x^2 - 27x = 0$ are

1. 0 and 9
 2. 0 and -9
 3. 0 and 3
 4. 0 and -3
-

9.

Which expression is equivalent to $64 - x^2$?

1. $(8 - x)(8 - x)$
 2. $(8 - x)(8 + x)$
 3. $(x - 8)(x - 8)$
 4. $(x - 8)(x + 8)$
-

10.

Solve for x in simplest radical form. $2x^2 + 2x + 4 = x^2 + 6x + 5$

1. $x = 2 \pm \sqrt{10}$
 2. $x = 2 \pm \sqrt{5}$
 3. $x = 4 \pm 2\sqrt{5}$
 4. $x = \frac{4 \pm \sqrt{20}}{2}$
-

11.

What are the factors of the expression $x^2 + x - 20$?

1. $(x + 5)$ and $(x + 4)$
 2. $(x + 5)$ and $(x - 4)$
 3. $(x - 5)$ and $(x + 4)$
 4. $(x - 5)$ and $(x - 4)$
-

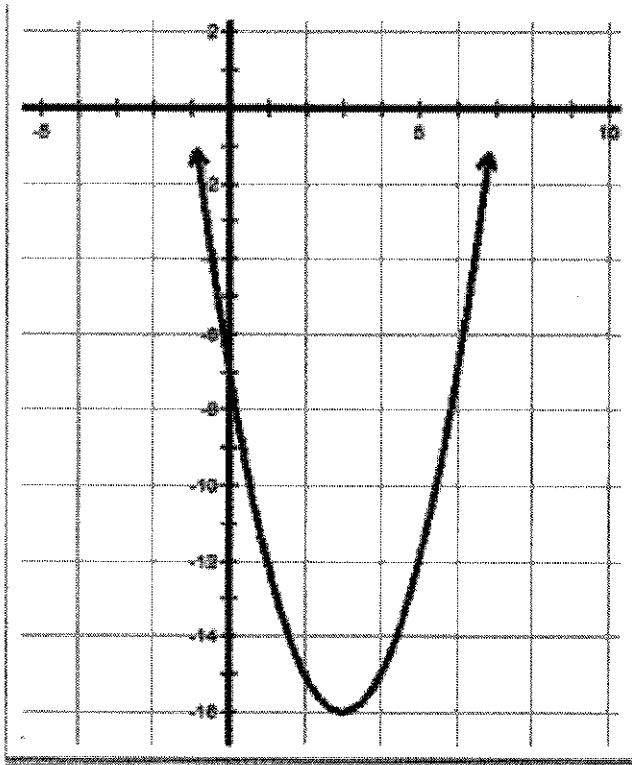
12.

Which of the following statements is true about the equation of the graph of a quadratic function that opens downward?

1. The constant is always less than zero.
2. The vertex is always above the x -axis.
3. The leading coefficient is always less than zero.
4. None of these.

13.

Using the graph below, determine the range of the function.



- | | |
|---------------------|--------------------|
| 1. $[-16, -1]$ | 3. $(-6, 10)$ |
| 2. All Real Numbers | 4. $[-16, \infty)$ |

14.

Select all expressions from the list below that share a common factor with the expression $6x^2y - 2y$.

Select all that apply:

- $8xy + 6y$
- $6x^3 + 2x$
- $12x^2 - 2$
- $18x^2 + 6$
- $9x^2y - 3y$

15.

The sum of the roots of the quadratic equation $2x^2 - 3x + 1 = 0$ is

1. $\frac{3}{2}$
2. $-\frac{3}{2}$
3. $\frac{1}{2}$
4. $-\frac{1}{2}$

16.

When factored completely, $x^3 + 3x^2 - 4x - 12$ equals

1. $(x + 2)(x - 2)(x - 3)$
2. $(x + 2)(x - 2)(x + 3)$
3. $(x^2 - 4)(x + 3)$
4. $(x^2 - 4)(x - 3)$

17.

Express $ax - a + x - 1$ as a product of two binomials.

1. $(a - 1)(x + 1)$
2. $(a)(x - 1)$
3. $(a + 1)(x - 1)$
4. $(ax - a)(x - 1)$

18.

The expression $x^2 - 36y^2$ is equivalent to

1. $(x - 6y)(x - 6y)$
2. $(x - 18y)(x - 18y)$
3. $(x + 6y)(x - 6y)$
4. $(x + 18y)(x - 18y)$

19.

What is the solution for $9x^2 + 9x + 3 = 0$?

1. $\frac{-9 \pm i\sqrt{21}}{18}$

2. $\frac{-3 \pm i\sqrt{21}}{6}$

3. $\frac{-9 \pm i\sqrt{3}}{18}$

4. $\frac{-3 \pm i\sqrt{3}}{6}$

20.

What is the solution for $7x^2 - 6x + 2 = 0$?

1. $\frac{3 \pm i\sqrt{5}}{7}$

2. $\frac{6 \pm i\sqrt{5}}{14}$

3. $\frac{3 \pm i\sqrt{23}}{7}$

4. $\frac{6 \pm i\sqrt{23}}{14}$

21.

What is the solution for $9x + 30 = -2x^2$?

1. $\frac{-9 \pm i\sqrt{321}}{4}$

2. $\frac{-9 \pm i\sqrt{321}}{2}$

3. $\frac{-9 \pm i\sqrt{159}}{4}$

4. $\frac{-9 \pm i\sqrt{159}}{2}$

22.

What is the vertex form and turning point of the equation $y = 2x^2 + 16x + 6$?

1. $y = 2(x + 4)^2 - 26$ and $(4, 26)$

2. $y = 2(x - 4)^2 - 26$ and $(-4, -26)$

3. $y = (2x - 8)^2 - 13$ and $(8, -13)$

4. $y = 2(x + 4)^2 - 26$ and $(-4, -26)$

23.

If $3x$ is one factor of $3x^2 - 9x$, what is the other factor?

1. $3x$

2. $x^2 - 6x$

3. $x - 3$

4. $x + 3$

24.

Written in simplest factored form, the binomial $2x^2 - 50$ can be expressed as

1. $2(x - 5)(x - 5)$

2. $2(x - 5)(x + 5)$

3. $(x - 5)(x + 5)$

4. $2x(x - 50)$

25.

Factor completely: $3x^2 - 27$

1. $3(x - 3)^2$

2. $3(x^2 - 27)$

3. $3(x + 3)(x - 3)$

4. $(3x + 3)(x - 9)$

26.

Which expression is equivalent to $\frac{2x^{-2}y^{-3}}{4y^{-5}}$?

1. $\frac{y^3}{2x^2}$

2. $\frac{2y^3}{x^2}$

3. $\frac{2x^2}{y^3}$

4. $\frac{x^2}{2y^3}$

27.

When $x^2 + 3x - 4$ is subtracted from $x^3 + 3x^2 - 2x$, the difference is

1. $x^3 + 2x^2 - 5x + 4$

2. $x^3 + 2x^2 + x - 4$

3. $-x^3 + 4x^2 + x - 4$

4. $-x^3 - 2x^2 + 5x + 4$

28.

What is the fourth term in the binomial expansion $(x - 2)^8$?

1. $448x^5$

2. $448x^4$

3. $-448x^5$

4. $-448x^4$

29.

Which expression is equivalent to $\frac{2x^6 - 18x^4 + 2x^2}{2x^2}$?

1. $x^3 - 9x^2$

2. $x^4 - 9x^2$

3. $x^3 - 9x^2 + 1$

4. $x^4 - 9x^2 + 1$

30.

The sum of $3x^2 + 5x - 6$ and $-x^2 + 3x + 9$ is

1. $2x^2 + 8x - 15$

2. $2x^2 + 8x + 3$

3. $2x^4 + 8x^2 + 3$

4. $4x^2 + 2x - 15$

31.

When $8x^2 + 3x + 2$ is subtracted from $9x^2 - 3x - 4$, the result is

1. $x^2 - 2$

2. $17x^2 - 2$

3. $-x^2 + 6x + 6$

4. $x^2 - 6x - 6$

32.

What is one-third of 3^6 ?

1. 12 3. 35

2. 32 4. 96

33.

What is the product of $(3x + 2)$ and $(x - 7)$?

1. $3x^2 - 14$

2. $3x^2 - 5x - 14$

3. $3x^2 - 19x - 14$

4. $3x^2 - 23x - 14$

34.

The quotient of $\frac{8x^5 - 2x^4 + 4x^3 - 6x^2}{2x^2}$ is

1. $16x^7 - 4x^6 + 8x^5 - 12x^4$

2. $4x^7 - x^6 + 2x^5 - 3x^4$

3. $4x^3 - x^2 + 2x - 3x$

4. $4x^3 - x^2 + 2x - 3$

35.

What is the product of $4 + 3i$ and $4 - 3i$?

1. 25 3. 7
2. 16 4. 5
-

36.

Which expression represents the third term in the expansion of $(2x^4 - y)^3$?

1. $-y^3$
2. $-6x^4y^2$
3. $6x^4y^2$
4. $2x^4y^2$
-

37.

What is the sum of $-3x^2 - 7x + 9$ and $-5x^2 + 6x - 4$?

1. $-8x^2 - x + 5$
2. $-8x^4 - x + 5$
3. $-8x^2 - 13x + 13$
4. $-8x^4 - 13x^2 + 13$
-

38.

What is $2\sqrt{45}$ expressed in simplest radical form?

1. $3\sqrt{5}$
2. $5\sqrt{5}$
3. $6\sqrt{5}$
4. $18\sqrt{5}$
-

39.

Which shows $(3^2)^{-2}$ in standard form?

1. 1
2. -81
3. $\frac{1}{81}$
4. 0
-

40.

Which shows $(5^3)^6$ in exponential form?

1. 5^9 3. 5^3
2. 5^2 4. 5^{18}
-

41.

Solve for y : $y^3 = 64$

1. 8
2. 16
3. $21\frac{1}{3}$
4. 4
-

42.

What is the value of $\left(\frac{3}{4}\right)^3$?

1. $\frac{9}{16}$
2. $\frac{3}{64}$
3. $\frac{9}{4}$
4. $\frac{27}{64}$
-

43.

Find the value of k so that the remainder is -26 for

$$(x^4 + kx^3 - 7x^2 + 8x - 10) \div (x + 4).$$

1. 1 3. 111
2. 2 4. 112
-

44.

Find the value of k so that the remainder is -12 for

$$(2x^4 + 4x^3 - 7x^2 - kx + 9) \div (x - 1).$$

1. -4 3. 20
2. -2 4. 30
-

45.

Find the value of k so that the remainder is 2 for

$$(x^4 - 12x^3 + 3x^2 - kx - 4) \div (x + 1).$$

1. 16 3. -2
2. 8 4. -10
-

46.

Which of the following expressions is equivalent to

$$\sqrt[4]{\frac{24x^7y^6}{16x^2y^8z}}?$$

1. $\frac{x^2\sqrt[4]{3x}}{2}$
2. $\frac{x^2\sqrt[4]{3xz}}{2yz}$
3. $\frac{x\sqrt[4]{24xy^2z^3}}{2yz}$
4. $\frac{x\sqrt[4]{24xy^2z^3}}{4yz}$
-

47.

Which expression is equal to

$$(6x^3 + 10x^2 - 4x + 10) \div (3x - 1)?$$

1. $2x^2 + 4x + 10 + \frac{10}{3x - 1}$
2. $2x^2 + 4x + \frac{10}{3x - 1}$
3. $2x^2 + \frac{8}{3}x - \frac{20}{9} + \frac{110}{27x - 9}$
4. $2x^2 - 4x - 10 + \frac{10}{3x - 1}$
-

48.

When dividing polynomials, what is the relationship between the degree of the dividend, the divisor, and the quotient?

- The degree of the quotient and divisor is always one less than the degree of the dividend.
 - The degree of the divisor is always one less than the degree of the quotient which is always one less than the degree of the dividend.
 - The degree of the dividend is always twice the degree of the quotient.
 - The degree of the divisor plus the degree of the quotient is equal to the degree of the dividend.
-

49.

A polynomial is divided by a binomial and the remainder is 0. What is the relationship between the polynomial and the binomial?

- The polynomial is of degree 3.
 - The graph of the polynomial and the graph of the binomial have the same y -intercept.
 - The binomial is a factor of the polynomial.
 - The coefficient of the binomial is 1.
-

50.

Which expression is equal to

$$(8x^3 - 18x^2 + 15x - 6) \div (2x - 3)?$$

- $4x^2 - 3x - 3$
 - $4x^2 - 3x + 3 + \frac{3}{2x - 3}$
 - $4x^2 - 10x + 30 - \frac{96}{2x - 3}$
 - $4x^2 - 3x - 3 - \frac{3}{2x - 3}$
-

51.

What is the coefficient of the fourth term in the expansion of $(a - 4b)^9$?

1. -5,376 3. 336
2. -336 4. 5,376
-

52.

The area of a rectangle is represented by $x^2 - 5x - 24$. If the width of the rectangle is represented by $x - 8$, express the length of the rectangle as a binomial.

1. $x - 3$ 3. $x + 3$
2. $x - 16$ 4. $x + 32$
-

53.

When $5x + 4y$ is subtracted from $5x - 4y$, the difference is

1. 0 3. $8y$
2. $10x$ 4. $-8y$
-

54.

What is $3\sqrt{250}$ expressed in simplest radical form?

1. $5\sqrt{10}$
2. $8\sqrt{10}$
3. $15\sqrt{10}$
4. $75\sqrt{10}$
-

55.

Solve for t : $4t^3 = 108$

1. 9 3. 3
2. 6 4. 1.3
-

56.

Simplify: $27 + 2(6 + x)$

1. $35 + x^2$
2. $39 + 2x$
3. $27 + 12x$
4. $29 + 8x$
-

57.

Simplify: $6(3x + 4y) + 2(x + 2y)$

1. $11x + 12y$
2. $44xy$
3. $20x + 28y$
4. $9x + 10y + 4xy$
-

58.

Which expression has the same value as $8 + 2(3 + x)$?

1. $2x + 24$ 3. $2x + 14$
2. $x + 14$ 4. $48 + 2x$
-

59.

Simplify: $7(a + 4b) - 3c$

1. $7a + 28b - 3c$
2. $7a + 11b - 3c$
3. $32abc$
4. $11ab - 3c$
-

60.

Which expression is equivalent to $3(x + 4) + 5x + 2$?

1. $8x + 14$ 3. $12x + 2$
2. $15x + 8$ 4. $8x + 8$
-

61.

Simplify: $2(x + 4)$

1. $2x + 6$ 3. $2x + 8$
2. $x + 6$ 4. $6x$
-

62.

Which expression is equivalent to $4(p + 2k) + k$?

1. $8p + k$ 3. $4p + 9k$
2. $4p + 3k$ 4. $p + 3k$
-

63.

Write the binomial expansion of $(2x - 1)^5$ as a polynomial in simplest form.

1. $32x^5 - 80x^4 + 80x^3 - 40x^2 + 10x - 1$
2. $32 - 80x + 80x^2 - 40x^3 + 10x^4 - x^5$
3. $2x^5 - 40x^4 + 80x^3 - 40x^2 + 10x + 1$
4. $32x^5 - 80x^4 + 40x^3 - 20x^2 + 5x - 1$
-

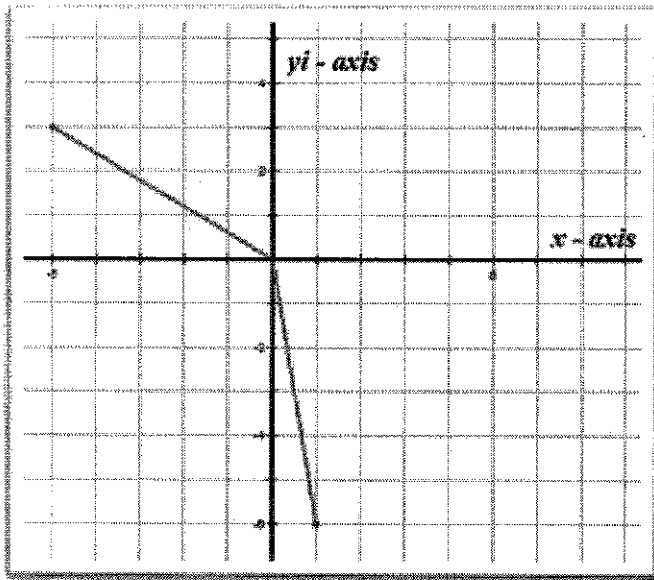
64.

Which values of x are solutions of the equation $x^3 + x^2 - 2x = 0$?

1. 0, 1, 2 3. 0, -1, 2
2. 0, 1, -2 4. 0, -1, -2
-

65.

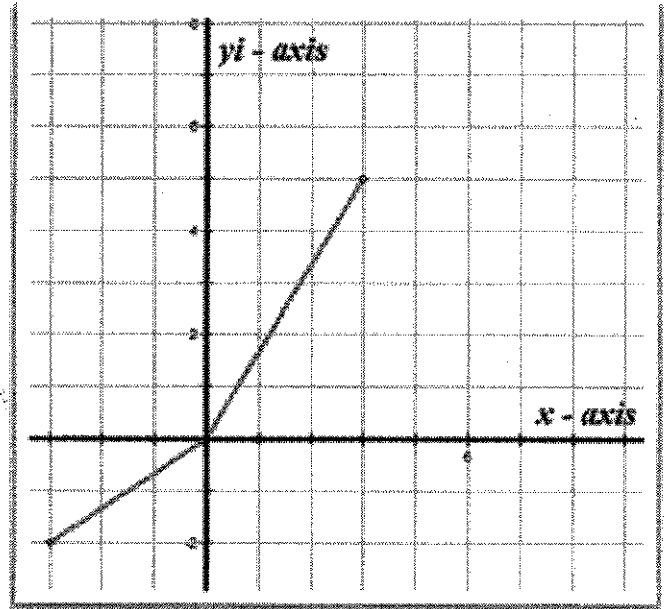
What is the difference of the complex numbers $1 - 6i$ and $-5 + 3i$ graphed below?



1. $9 - 6i$
2. $-6 + 9i$
3. $6 - 9i$
4. $-4 - 3i$
-

66.

What is the difference of the complex numbers $3 + 5i$ and $-3 - 2i$ graphed below?



1. $3i$
2. $6 + 7i$
3. $-6 - 7i$
4. $6 + 3i$
-

67.

What is the result when $2x^2 + 3xy - 6$ is subtracted from $x^2 - 7xy + 2$?

1. $-x^2 - 10xy + 8$
2. $x^2 + 10xy - 8$
3. $-x^2 - 4xy - 4$
4. $x^2 - 4xy - 4$
-

68.

What is $3\sqrt{2} + \sqrt{8}$ expressed in simplest radical form?

1. $3\sqrt{10}$
2. $3\sqrt{16}$
3. $5\sqrt{2}$
4. $7\sqrt{2}$
-

69.

What are the domain and the range for the following function?

$$f(x) = \sqrt{x-3} + 2$$

1. $x \leq -3$ and $y > 2$
 2. $x \geq 3$ and $y \geq 2$
 3. $x \geq -3$ and $y \geq 2$
 4. $x < 3$ and $y \leq 2$
-

70.

$(13)^{-1/2}$ is equivalent to which of the following?

1. $\sqrt{13}$
 2. $-\frac{13}{2}$
 3. $\frac{1}{\sqrt{13}}$
 4. $\frac{1}{13^2}$
-

71.

$6^{4/3}$ is equivalent to which of the following?

1. 8
 2. $\sqrt[3]{6^4}$
 3. $\sqrt[4]{6^3}$
 4. $\sqrt[6]{4/3}$
-

72.

What is the value of $\frac{1}{\sqrt{9^3}}$?

1. $\frac{1}{27}$
 2. 27
 3. $\frac{1}{9}$
 4. 9
-

73.

Which is the absolute maximum for the polynomial $y = -x^3 + 5x^2 + x - 6$?

1. (3.43, 15.9)
 2. (-0.097, -6.049)
 3. ∞
 4. There is no absolute maximum for the polynomial.
-

74.

A cubic with a positive leading coefficient most resembles which of the following letters?

1. **W**
 2. **U**
 3. **M**
 4. **N**
-

75.

The shape of a quartic with a negative leading coefficient most closely resembles which of the following letters?

1. **W**
 2. **U**
 3. **M**
 4. **N**
-

76.

An n^{th} -degree polynomial can have at most how many turning points?

- | | |
|------------|------------|
| 1. n | 3. $n + 1$ |
| 2. $n - 1$ | 4. $n - 2$ |
-

77.

Even-degree polynomials can have how many absolute maximums or minimums?

- | | |
|------|------|
| 1. 1 | 3. 3 |
| 2. 2 | 4. 0 |
-

78.

Which of the following is the remainder when $4x^3 - 8x^2 + 5x$ is divided by $(2x - 3)$? [Hint: Use synthetic division.]

- | | |
|-------|---------|
| 1. 3 | 3. 1.5 |
| 2. -3 | 4. -1.5 |
-

79.

Using synthetic division, divide the polynomial $x^2 + 4$ by $(x - 4)$, and then express the answer as a quotient with a remainder.

1. $x + 4 + \frac{20}{x - 4}$

2. $x + 24$

3. $x + 4 + \frac{12}{x - 4}$

4. $x + 4 - \frac{20}{x - 4}$

80.

Using synthetic division, divide the polynomial $6x^4 - 5x^2 - 1$ by $(x - 1)$, and then express the polynomial as a product of a divisor and a quotient with a remainder.

1. $(x - 1)(6x^2 + 6x + 1) + 1$

2. $(x - 1)(6x^3 + 6x^2 + x + 1) + 1$

3. $(x - 1)(6x^3 + 6x^2 + x + 1)$

4. $(x - 1)(6x^2 - 6x - 1)$

81.

Using synthetic division, divide the polynomial $3x^4 - 12x^2 + 7x - 155$ by $(x - 3)$, and then express the polynomial as a product of a divisor and a quotient with a remainder.

1. $(x - 3)(3x^2 + 9x + 15) + 53$

2. $(x - 3)(3x^3 + 9x^2 + 15x + 52) + 1$

3. $(x - 3)(3x^3 + 9x^2 + 15x + 38) + 1$

4. $(x - 3)(3x^2 - 9x - 15) - 53$

82.

Simplify the expression: $8xy - (x + 2xy) + 3x$

1. $-6xy + 3x$

2. $6xy + 3x$

3. $6xy + 2x$

4. $6xy + 2y$

83.

Susie invests \$500 in an account that is compounded continuously at an annual interest rate of 5%, according to the formula $A = Pe^{rt}$, where A is the amount accrued, P is the principal, r is the rate of interest, and t is the time, in years. Approximately how many years will it take for Susie's money to double?

1. 1.4 3. 13.9

2. 6.0 4. 14.7

84.

Expressed in simplest form, $\frac{3y}{2y - 6} + \frac{9}{6 - 2y}$ is equivalent

to

1. $\frac{-6y^2 + 36y - 54}{(2y - 6)(6 - 2y)}$

2. $\frac{3y - 9}{2y - 6}$

3. $\frac{3}{2}$

4. $-\frac{3}{2}$

85.

The expression $\frac{2x^2 + 10x - 28}{4x + 28}$ is equivalent to

1. $\frac{x - 2}{2}$

2. $x - 1$

3. $\frac{x + 2}{2}$

4. $\frac{x + 5}{2}$

86.

Express in simplest form: $\frac{x^2 - 1}{x^2 + 3x + 2}$

1. $\frac{x - 1}{x + 2}$

2. $\frac{x + 1}{x + 2}$

3. $\frac{x + 1}{x - 2}$

4. $\frac{x - 1}{x - 2}$

87.

What is the sum of $\frac{2y}{y+5}$ and $\frac{10}{y+5}$ expressed in simplest form?

1. 1
 2. 2
 3. $\frac{12y}{y+5}$
 4. $\frac{2y+10}{y+5}$
-

88.

Mr. Smith invested \$2,500 in a savings account that earns 3% interest compounded annually. He made no additional deposits or withdrawals. Which expression can be used to determine the number of dollars in this account at the end of 4 years?

1. $2500(1 + 0.03)^4$
 2. $2500(1 + 0.3)^4$
 3. $2500(1 + 0.04)^3$
 4. $2500(1 + 0.4)^3$
-

89.

For all values of x for which the expressions are defined,

$\frac{x-7}{3x^2-8x+4}$ divided by $\frac{3x-21}{6x^2-24}$ is

1. $\frac{2x+2}{3x-2}$
 2. $\frac{2x+2}{3(x-2)}$
 3. $\frac{2(x+2)}{3x-2}$
 4. $\frac{2(x+2)}{3(x-2)}$
-

90.

The sum of $\frac{1}{x+1}$ and $\frac{3}{x^2-1}$ expressed as a single fraction is

1. $\frac{2}{x-1}$
 2. $\frac{2}{x+1}$
 3. $\frac{4}{(x+1)(x-1)}$
 4. $\frac{x+2}{(x+1)(x-1)}$
-

91.

What is the quotient of $\frac{x}{x+4}$ divided by $\frac{2x}{x^2-16}$?

1. $\frac{2}{x-4}$
 2. $\frac{2x^2}{x-4}$
 3. $\frac{2x^2}{x^2-16}$
 4. $\frac{x-4}{2}$
-

92.

Akeem invests \$25,000 in an account that pays 4.75% annual interest compounded continuously. Using the formula $A = Pe^{rt}$, where A = the amount in the account after t years, P = principal invested, and r = the annual interest rate, how many years, to the nearest tenth, will it take for Akeem's investment to triple?

1. 10.0
 2. 14.6
 3. 23.1
 4. 24.0
-

93.

The value of a car purchased for \$20,000 decreases at a rate of 12% per year. What will be the value of the car after 3 years?

1. \$12,800.00
 2. \$13,629.44
 3. \$17,600.00
 4. \$28,098.56
-

94.

Which expression represents $\frac{x^2 - x - 6}{x^2 - 5x + 6}$ in simplest form?

1. $\frac{x+2}{x-2}$
2. $\frac{-x-6}{-5x+6}$
3. $\frac{1}{5}$
4. -1

95.

What is the sum of $\frac{3}{2x}$ and $\frac{7}{4x}$?

1. $\frac{21}{8x^2}$
2. $\frac{13}{4x}$
3. $\frac{10}{6x}$
4. $\frac{13}{8x}$

96.

What is $\frac{2+x}{5x} - \frac{x-2}{5x}$ expressed in simplest form?

1. 0
2. $\frac{2}{5}$
3. $\frac{4}{5x}$
4. $\frac{2x+4}{5x}$

97.

What is the sum of $\frac{3x^2}{x-2}$ and $\frac{x^2}{x-2}$?

1. $\frac{3x^4}{(x-2)^2}$
2. $\frac{3x^4}{x-2}$
3. $\frac{4x^2}{(x-2)^2}$
4. $\frac{4x^2}{x-2}$

98.

Cassandra bought an antique dresser for \$500. If the value of her dresser increases 6% annually, what will be the value of Cassandra's dresser at the end of 3 years to the *nearest dollar*?

- | | |
|----------|----------|
| 1. \$415 | 3. \$596 |
| 2. \$590 | 4. \$770 |

99.

Perform the indicated operation and simplify:

$$\frac{3x+6}{4x+12} \div \frac{x^2-4}{x+3}$$

1. $\frac{3}{4(x+2)}$
2. $\frac{3}{4x+8}$
3. $\frac{3}{4x-8}$
4. $\frac{3}{4x-2}$

100.

Which expression represents $\frac{25x - 125}{x^2 - 25}$ in simplest form?

1. $\frac{5}{x}$

2. $-\frac{5}{x}$

3. $\frac{25}{x-5}$

4. $\frac{25}{x+5}$

100.

Which expression represents $\frac{25x - 125}{x^2 - 25}$ in simplest form?

1. $\frac{5}{x}$

2. $-\frac{5}{x}$

3. $\frac{25}{x-5}$

4. $\frac{25}{x+5}$
