**1.**

**Add.**

(-9 + 3n6 + 3n5) + (2n6 + 5n5 + 6)

A) 5n6 + 8n5 - 3

B) 10n11

C) 5 + 8n6 - 3n5

D) -7n6 + 8n5 + 9

**2.**

**Subtract.**

(8n7 + 2n6 + 17) - (5n6 + 5n7 + 15)

A) 3n7 - 3n6 + 32

B) 3n7 + 7n6 + 32

C) 2n13

D) 3n7 - 3n6 + 2

**3.**

**Multiply.**

4(5x)

A) 20

B) 20x

C) 9x

D) 9

**4.**

**Multiply.**

-8x2(-10x4 + 9x3)

A) 8x2

B) 8x6 + 8x5

C) 80x6 - 72x5

D) 80x6 + 9x3

**5.**

**Factor.**

y2 - 64

A) (y + 64)(y - 64)

B) (y + 8)(y - 8)

C) (y2 + 8)(y2 - 8)

D) (y - 8)(y - 8)



**8.**

**Solve and check the linear equation.**

0.40x - 0.20(50 + x) = -0.04(50)

A) {50}

B) {30}

C) {40}

D) {20}

**9.**

**Solve the equation by factoring.**

x2 = x + 6

A) {-2, -3}

B) {1, 6}

C) {-2, 3}

D) {2, 3}



**12.**

**Determine whether the equation defines y as a function of x.**

x + y = 9

A) y is a function of x

B) y is not a function of x

**13.**

**Evaluate the function at the given value of the independent variable and simplify.**

f(x) = x2 - 1; f(x - 2)

A) x2 + 4

B) x2 - 4x + 3

C) x2 - 3

D) x2 - 4x + 4

**14.**

**Find the slope of the line that goes through the given points.**

(-1, 4), (5, 4)

A)

B) 0

C) 2

D) Undefined

**15.**

**Find the slope of the line that goes through the given points.**

(-3, -7), (9, -7)

A) 0

B) 1

C) -4

D) 4

**16.**

**Determine whether the given quadratic function has a minimum value or maximum value. Then find the coordinates of the minimum or maximum point.**

f(x) = -x2 - 2x - 6

A) minimum;

B) minimum;

C) maximum;

D) maximum;

**17.**

**Find the degree of the polynomial function.**

g(x) = -7x3 + 9

A) 0

B) -7

C) 3

D) 4

**18.**

**Find the zeros of the polynomial function.**

f(x) = x3 + x2 - 42x

A) x = - 7, x = 6

B) x = 0, x = 5, x = 6

C) x = 5, x = 6

D) x = 0, x = - 7, x = 6

**19.**

**Find the zeros of the polynomial function.**

f(x) = x3 + 4x2 - 9x - 36

A) x = -3, x = 3

B) x = 4, x = -3, x = 3

C) x = -4, x = 9

D) x = -4, x = -3, x = 3



**21.**

**Simplify.**

log6

A) -2

B) 2

C) -6

D) 6

**22.**

**Simplify.**

log2 25

A) 10

B) 32

C) 5

D) 2

**23.**

**Simplify.**

9log9(7)

A) 1

B) 97

C) 7

D) 9



**25.**

**Write in logarithmic form.**

43 = 64

A) 4 = log3 64

B) 64 = log4 3

C) 3 = log64 4

D) 3 = log4 64