Polynomial Degree & End Behavior · 1

Find the degree and the leading coefficient of $f(x) = 2(x + 6)^2(x - 6)$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 2

Describe the end behavior of $f(x) = -4(x + 3)(x - 1)^2(x - 6)$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 3

What is the greatest number of turning points the graph of $f(x) = -(x + 2)(x - 3)^2$ can have?

Polynomial Degree & End Behavior · 4

Describe the end behavior of $f(x) = -(x - 2)^2(x - 4)^2(x - 6)$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 5

Find the degree and the leading coefficient of $f(x) = 2(x + 5)(x + 3)^3$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 6

Describe the end behavior of $f(x) = -4(x + 1)(x - 6)^3$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 7

Find the degree and the leading coefficient of $f(x) = 2x^4 - 3 - 3x^2 - 2x$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 8

Describe the end behavior of $f(x) = x^5 - 5x - 2 + 2x^3$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 2

ANSWER

down, down

Polynomial Degree & End Behavior · 1

ANSWER

3, 2

Polynomial Degree & End Behavior · 4

ANSWER

up, down

Polynomial Degree & End Behavior · 3

ANSWER

2

Polynomial Degree & End Behavior · 6

ANSWER

down, down

Polynomial Degree & End Behavior · 5

ANSWER

4, 2

Polynomial Degree & End Behavior · 8

ANSWER

down, up

Polynomial Degree & End Behavior · 7

ANSWER

4, 2

Polynomial Degree & End Behavior · 9

What is the greatest number of turning points the graph of $f(x) = 2 - x^5 - 7x^2 - 2x^4 - 7x^3$ can have?

Polynomial Degree & End Behavior · 10

Describe the end behavior of $f(x) = -2 - 2x^5 - 5x^2 + 4x$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 11

Find the degree and the leading coefficient of $f(x) = -x^3(x + 6)^3(x + 5)$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 12

Describe the end behavior of $f(x) = -4(x - 1)^3(x - 4)^3(x - 6)^2$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 13

Find the degree and the leading coefficient of $f(x) = -(x + 3)(x - 2)$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 14

Describe the end behavior of $f(x) = 3x^4 + 6x^2 - x^3 - 2x$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 15

What is the greatest number of turning points the graph of $f(x) = -2(x + 3)^2(x - 2)^2(x - 4)^3$ can have?

Polynomial Degree & End Behavior · 16

Describe the end behavior of $f(x) = -5x^2 + 2x^5 + 1 - 3x^3$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 10

ANSWER

up, down

Polynomial Degree & End Behavior · 9

ANSWER

4

Polynomial Degree & End Behavior · 12

ANSWER

down, down

Polynomial Degree & End Behavior · 11

ANSWER

7, -1

Polynomial Degree & End Behavior · 14

ANSWER

up, up

Polynomial Degree & End Behavior · 13

ANSWER

2, -1

Polynomial Degree & End Behavior · 16

ANSWER

down, up

Polynomial Degree & End Behavior · 15

ANSWER

6

Polynomial Degree & End Behavior · 17

Find the degree and the leading coefficient of $f(x) = 3(x + 2)(x - 1)^3$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 18

Describe the end behavior of $f(x) = 2x + 2x^2 + 2x^4 + 1$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 19

Find the degree and the leading coefficient of $f(x) = -2(x + 6)^3(x + 2)(x - 3)^2$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 20

Describe the end behavior of $f(x) = -2(x + 4)^3(x + 2)$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 21

What is the greatest number of turning points the graph of $f(x) = 2x(x - 3)$ can have?

Polynomial Degree & End Behavior · 22

Describe the end behavior of $f(x) = (x + 3)(x - 4)^3$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 23

Find the degree and the leading coefficient of $f(x) = 3(x + 5)^2(x - 5)^2$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 24

Describe the end behavior of $f(x) = 4x^2 - x^5 + x^4 + 6x - 3x^3$. Does the graph go up or down at the left end and at the right end? Answer as: left, right (for example: down, up).

Polynomial Degree & End Behavior · 18

ANSWER

up, up

Polynomial Degree & End Behavior · 17

ANSWER

4, 3

Polynomial Degree & End Behavior · 20

ANSWER

down, down

Polynomial Degree & End Behavior · 19

ANSWER

6, -2

Polynomial Degree & End Behavior · 22

ANSWER

up, up

Polynomial Degree & End Behavior · 21

ANSWER

1

Polynomial Degree & End Behavior · 24

ANSWER

up, down

Polynomial Degree & End Behavior · 23

ANSWER

4, 3