Polynomial Degree & End Behavior · 1

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

Polynomial Degree & End Behavior · 2

Describe the end behavior of $f(x) = 9x + 2x^2 + x^4 - 4x^5$. 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 $f(x) = -2(x + 6)^2(x + 1)(x - 4)^2$ can have?

Polynomial Degree & End Behavior · 4

Describe the end behavior of $f(x) = 2 - 3x - x^3 - 2x^6 + 9x^5 - x^4$. 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 $f(x) = 2(x - 1)^3(x - 2)$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 6

Describe the end behavior of $f(x) = -4(x - 1)^3(x - 3)^3(x - 6)^2$. 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 · 7

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

Polynomial Degree & End Behavior · 8

Describe the end behavior of $f(x) = 2(x + 4)^2(x + 3)^3$. 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

up, down

Polynomial Degree & End Behavior · 1

ANSWER

2, 3

Polynomial Degree & End Behavior · 4

ANSWER

down, down

Polynomial Degree & End Behavior · 3

ANSWER

4

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

2, 5

Polynomial Degree & End Behavior · 9

What is the greatest number of turning points the graph of $f(x) = -x^2(x + 4)(x - 1)^2$ can have?

Polynomial Degree & End Behavior · 10

Describe the end behavior of $f(x) = -(x + 6)(x + 5)^3(x - 2)$. 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 · 11

Find the degree and the leading coefficient of $f(x) = (x + 1)(x - 5)^2$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 12

Describe the end behavior of $f(x) = 3x(x + 5)^3(x - 3)$. 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 · 13

Find the degree and the leading coefficient of $f(x) = 2x^6 - 7x^5 - 5x^4 - 1 + 9x + 4x^2$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 14

Describe the end behavior of $f(x) = (x + 3)(x - 1)^2$. 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 · 15

What is the greatest number of turning points the graph of $f(x) = -3 - x^4 - 2x^6 - 5x^2 - 7x^3 + x^5$ can have?

Polynomial Degree & End Behavior · 16

Describe the end behavior of $f(x) = -x^3(x - 5)$. 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, up

Polynomial Degree & End Behavior · 11

ANSWER

3, 1

Polynomial Degree & End Behavior · 14

ANSWER

down, up

Polynomial Degree & End Behavior · 13

ANSWER

6, 2

Polynomial Degree & End Behavior · 16

ANSWER

down, down

Polynomial Degree & End Behavior · 15

ANSWER

5

Polynomial Degree & End Behavior · 17

Find the degree and the leading coefficient of $f(x) = -2x^5 - x^2 + 9x^3 + 2x + 6x^4$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 18

Describe the end behavior of $f(x) = -2(x + 4)^3(x - 3)$. 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 · 19

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

Polynomial Degree & End Behavior · 20

Describe the end behavior of $f(x) = 3(x + 5)^3(x - 2)(x - 4)$. 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 $f(x) = 2(x - 2)^3(x - 5)^2$ can have?

Polynomial Degree & End Behavior · 22

Describe the end behavior of $f(x) = 3(x - 1)^2(x - 5)^2$. 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 · 23

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

Polynomial Degree & End Behavior · 24

Describe the end behavior of $f(x) = x(x + 1)^2(x - 2)$. 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 · 18

ANSWER

down, down

Polynomial Degree & End Behavior · 17

ANSWER

5, -2

Polynomial Degree & End Behavior · 20

ANSWER

down, up

Polynomial Degree & End Behavior · 19

ANSWER

6, -1

Polynomial Degree & End Behavior · 22

ANSWER

up, up

Polynomial Degree & End Behavior · 21

ANSWER

4

Polynomial Degree & End Behavior · 24

ANSWER

up, up

Polynomial Degree & End Behavior · 23

ANSWER

4, 1