Polynomial Degree & End Behavior · 1

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

Polynomial Degree & End Behavior · 2

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

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

Polynomial Degree & End Behavior · 4

Describe the end behavior of $f(x) = 3x^3 + x^2 + 9x - 7$. 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 $f(x) = x^4 - 5x^2 + 4$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 6

Describe the end behavior of $f(x) = -4x^4 - 3x^3 + 9x^2 + 6x - 5$. 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 · 7

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

Polynomial Degree & End Behavior · 8

Describe the end behavior of $f(x) = 2x^4 - 2x^3 + 9x^2 - 3$. 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

4, -4

Polynomial Degree & End Behavior · 4

ANSWER

down, up

Polynomial Degree & End Behavior · 3

ANSWER

2

Polynomial Degree & End Behavior · 6

ANSWER

down, down

Polynomial Degree & End Behavior · 5

ANSWER

4, 1

Polynomial Degree & End Behavior · 8

ANSWER

up, up

Polynomial Degree & End Behavior · 7

ANSWER

1

Polynomial Degree & End Behavior · 9

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

Polynomial Degree & End Behavior · 10

Describe the end behavior of $f(x) = -2x + 1 + 6x^2 - 4x^5$. 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 · 11

What is the greatest number of turning points the graph of $f(x) = 1 + 4x^3 - x^5 + x^4 + 6x$ can have?

Polynomial Degree & End Behavior · 12

Describe the end behavior of $f(x) = 5x^4 + x + 6$. 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 · 13

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

Polynomial Degree & End Behavior · 14

Describe the end behavior of $f(x) = x^3 + 9x^2$. 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

Describe the end behavior of $f(x) = -2x^2 + 4 + 2x^4 - 4x^5 + 4x^3$. 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 · 16

Find the degree and the leading coefficient of $f(x) = -4(x + 2)^3(x - 1)^2(x - 5)^3$. Answer as: degree, leading coefficient.

Polynomial Degree & End Behavior · 10

ANSWER

up, down

Polynomial Degree & End Behavior · 9

ANSWER

5, -2

Polynomial Degree & End Behavior · 12

ANSWER

up, up

Polynomial Degree & End Behavior · 11

ANSWER

4

Polynomial Degree & End Behavior · 14

ANSWER

down, up

Polynomial Degree & End Behavior · 13

ANSWER

2, 2

Polynomial Degree & End Behavior · 16

ANSWER

8, -4

Polynomial Degree & End Behavior · 15

ANSWER

up, down

Polynomial Degree & End Behavior · 17

Describe the end behavior of $f(x) = 2(x + 2)(x - 5)(x - 6)^3$. 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 · 18

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

Polynomial Degree & End Behavior · 19

Describe the end behavior of $f(x) = -(x - 2)(x - 6)$. 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 · 20

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

Polynomial Degree & End Behavior · 21

Describe the end behavior of $f(x) = -x^2 - 5 - 3x^5 + 6x^4$. 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 · 22

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

Polynomial Degree & End Behavior · 23

Describe the end behavior of $f(x) = -4x^2 - 7x - 1$. 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 · 24

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

Polynomial Degree & End Behavior · 18

ANSWER

3

Polynomial Degree & End Behavior · 17

ANSWER

down, up

Polynomial Degree & End Behavior · 20

ANSWER

4, -3

Polynomial Degree & End Behavior · 19

ANSWER

down, down

Polynomial Degree & End Behavior · 22

ANSWER

2, -4

Polynomial Degree & End Behavior · 21

ANSWER

up, down

Polynomial Degree & End Behavior · 24

ANSWER

1

Polynomial Degree & End Behavior · 23

ANSWER

down, down