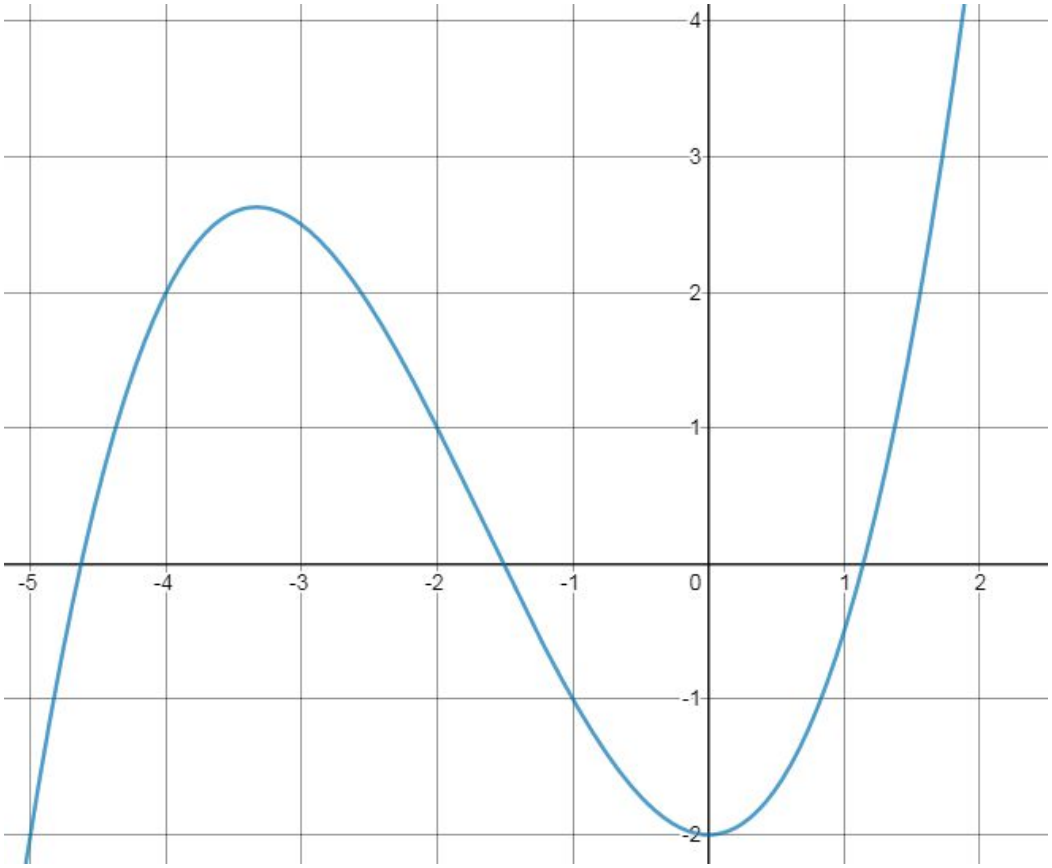
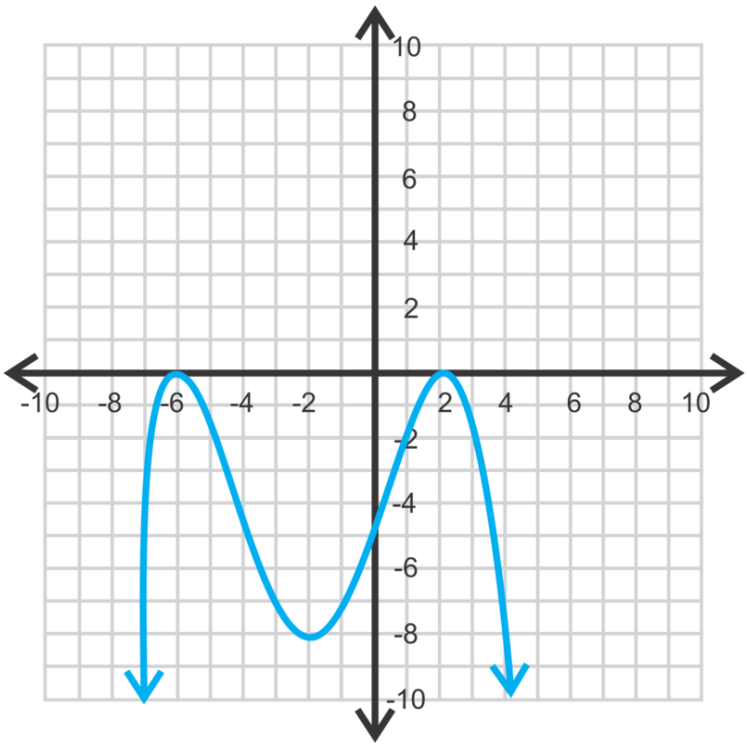
C. What is the degree, constant term, and leading coefficient (+/-) of the function that makes this graph?



Previous Answer:

$(2x+3)(x-2)$

A. Over which intervals is the graph below increasing?



Previous Answer:

3, -2, positive

B. What is the end behavior of this function?

$f(x) = \quad -3x^5 + 2x^2 - 5$

Left: $x \to$ $\qquad\qquad$ $f(x) \to$

Right: $x \to$ $\qquad\qquad$ $f(x) \to$

Previous Answer:

$(-\infty, \ -6)$ and $(-2, 2)$

Or

$x < \ -6$ and $-2 < x < 2$

I. What is the degree, y-intercept, and leading coefficient of this function?

$$f(x) = -2x^4 - 3x^3 - 18x^2 + 12x - 9$$

Previous Answer:

$x \to -\infty$ $\qquad$ $f(x) \to \infty$

$x \to \infty$

$f(x) \to -\infty$

N. What is the end behavior of the function

$$f(x) = -2x^4 - 3x^3 - 18x^2 + 12x - 9$$

Left: $x \to$ $f(x) \to$

Right: $x \to$ $f(x) \to$

Previous Answer:

4, -9, -2

E. Solve $6n^2 - 8n + 6 = 0$

Previous Answer:

$x \longrightarrow \quad -\infty$

$f(x) \longrightarrow \quad -\infty$

$$x \longrightarrow \infty$$

$$f(x) \longrightarrow \quad -\infty$$

T. Solve $x^2 + 5 = \quad -5x$

Previous Answer:

$\frac{2+i\sqrt{5}}{3}$ and $\frac{2-i\sqrt{5}}{3}$

W. Solve $2x^2 - x - 10 = \quad -4$

Previous Answer:

$\frac{-5+\sqrt{5}}{2}$ and $\frac{-5-\sqrt{5}}{2}$

O. Solve

$$(2x+5)(x-6)(12x+24)=0$$

Previous Answer:

$\frac{-3}{2}$ and 2

R. Multiply

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

Previous Answer:

$\frac{-5}{2}$, 6, and -2

K. Simplify

$$(x^3 - 4x^2 + 5) - (3x^2 - 4x^3 + 19 - x)$$

Previous Answer:

$$42x^3 - 17x^2 - 8x + 3$$

S. Factor $2x^2 - x - 6$

Previous Answer:

$5x^3 - 7x^2 + x - 14$