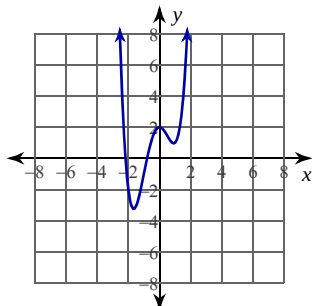


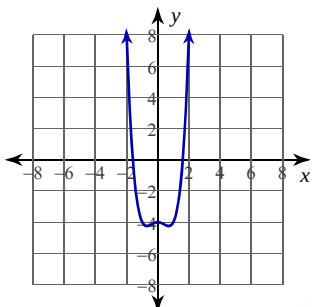
Sketch the graph of each function.

1) $f(x) = x^4 + x^3 - 3x^2 + 2$

A)

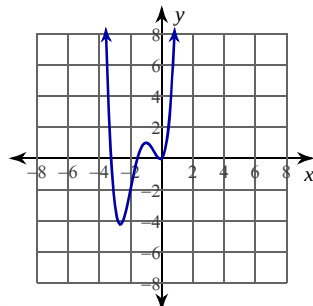


B)

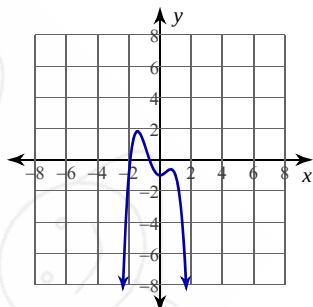


2) $f(x) = x^4 + 5x^3 + 6x^2 + x$

A)

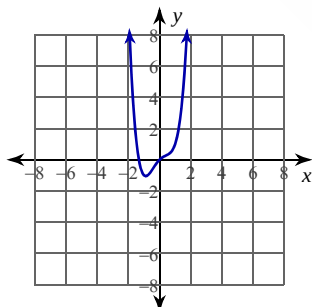


B)

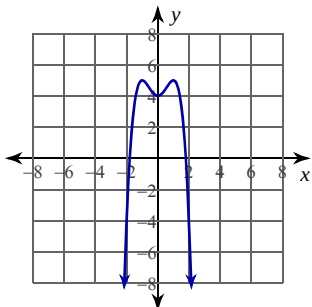


3) $f(x) = -x^4 + 2x^2 + 4$

A)

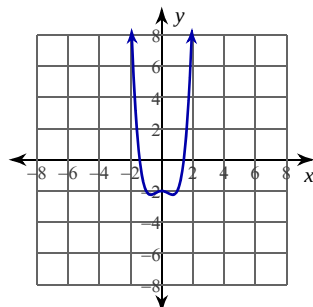


B)

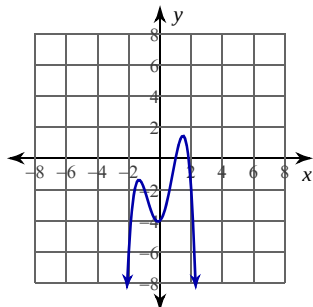


4) $f(x) = -x^4 + 4x^2 + x - 4$

A)

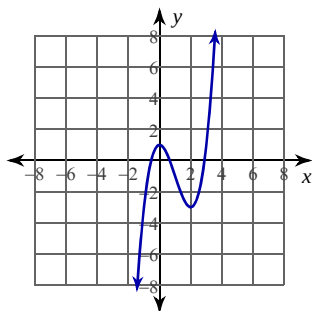


B)

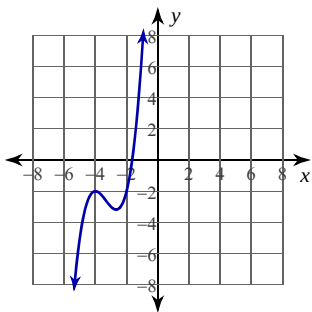


5) $f(x) = x^3 - 3x^2 + 1$

A)

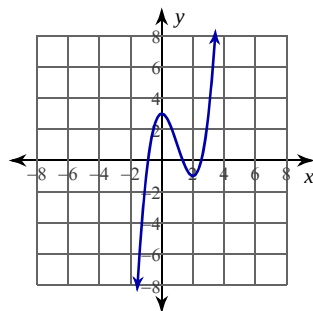


B)

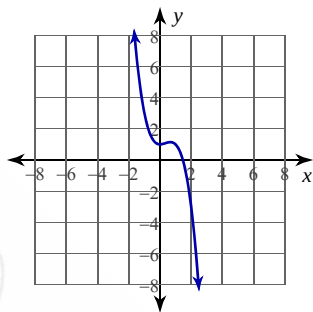


6) $f(x) = x^3 - 3x^2 + 3$

A)

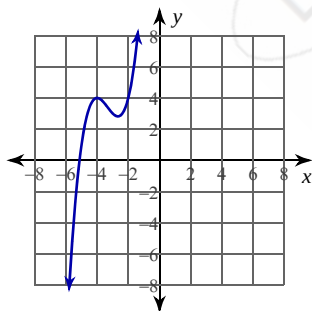


B)

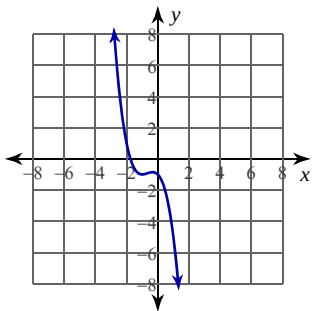


7) $f(x) = x^3 + 10x^2 + 32x + 36$

A)

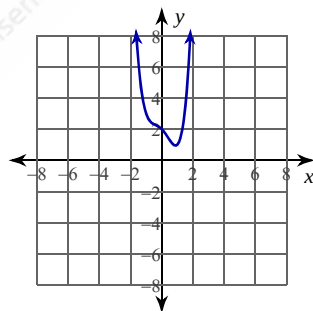


B)

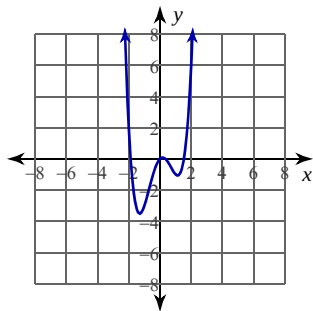


8) $f(x) = x^4 - 3x^2 + x$

A)



B)



Answers to

1) A
5) A

2) A
6) A

3) B
7) A

4) B
8) B

