MORE PRACTICE: Graphing Polynomials

Match the graph with the equation.

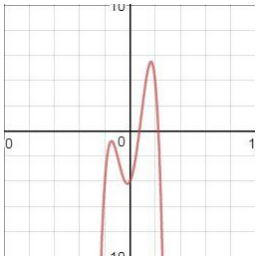
1. $y = x^4 + 3x^3 - 2x + 1$

2. $y = x^3 + 3x^2 - 2x + 1$

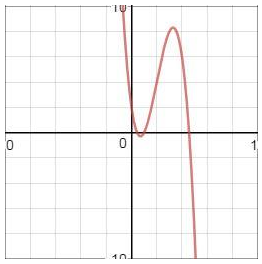
3. $y = -x^4 + 5x^2 + 2x - 4$

4. $y = -x^3 + 6x^2 - 7x + 2$

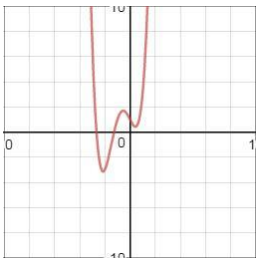
A.



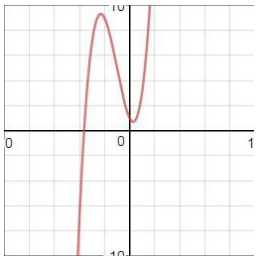
B.



C.



D.



Label the following polynomials as even (E), odd (O), or neither (N).

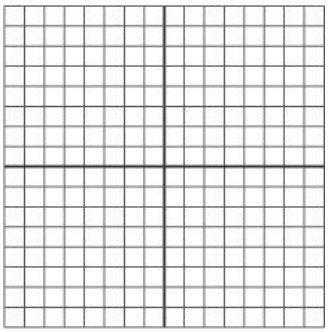
5. $x^2 + 3x$ 6. $x^2 + 3$ 7. $x^3 + 3x$ 8. $x^3 + 3$

Find the x-intercept and y-intercept of the following:

9. $y = 5x + 1$ 10. $y = 8 - 3x$ 11. $y = x^2 - 4$

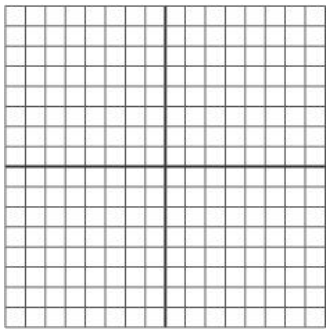
For the following quadratic polynomials, find:
a) the y-intercept , b) the x-intercept(s) or zeros, c) the maximum or minimum, d) whether the graph opens up or down, then e) graph the function.

12. $y = x^2 - 25$



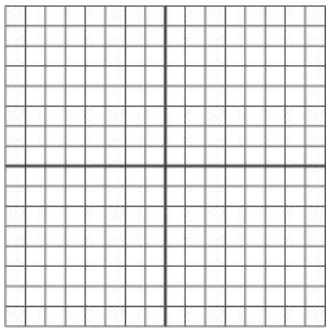
a)
b)
c)
d)

13. $y = x^2 + 3x + 2$



a)
b)
c)
d)

14. $y = x^2 - x - 6$



a)
b)
c)
d)