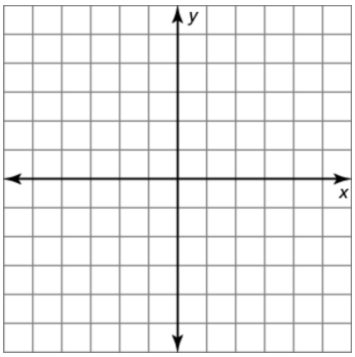
Name_____ Date _____

9.2 Day One Worksheet from Workbook

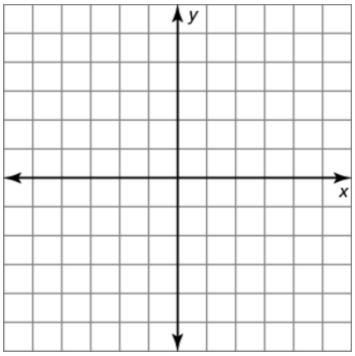
Write your answers as x = ____.

In Exercises 1–9, solve the equation by graphing. Show all work.

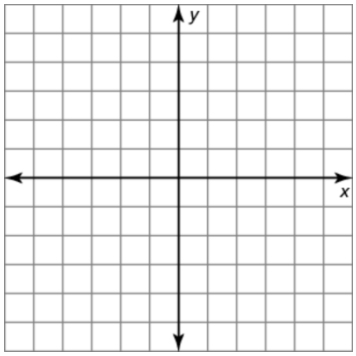
1. $x^2 + 4x = 0$



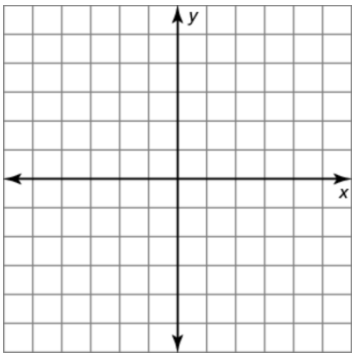
2. $-x^2 = -2x + 1$



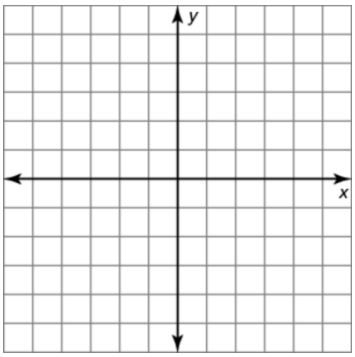
3. $x^2 + 2x + 4 = 0$



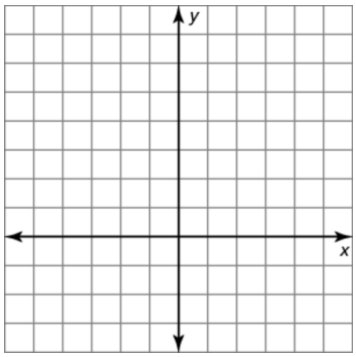
4. $x^2 - 5x + 4 = 0$



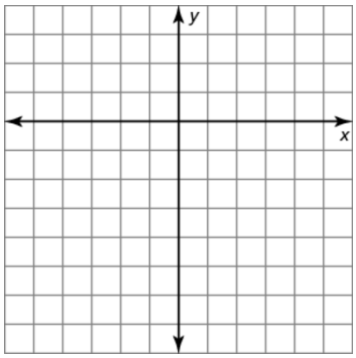
5. $x^2 + 6x + 9 = 0$



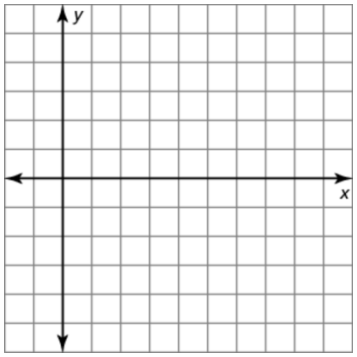
6. $x^2 = 2x - 6$



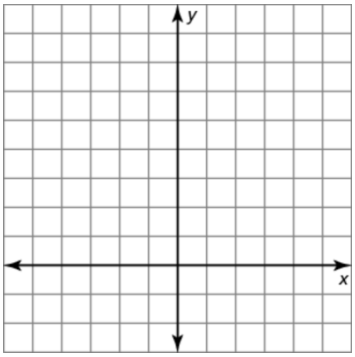
7. $x^2 - x - 12 = 0$



8. $x^2 - 10x + 25 = 0$

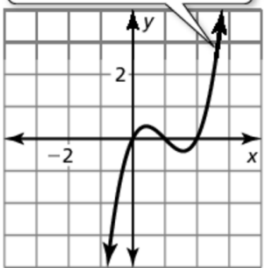


9. $x^2 + 4 = 0$

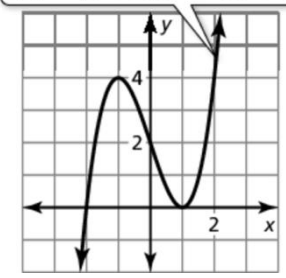


In Exercises 10–15, find the zero(s) of *f*. Show all work for solving.

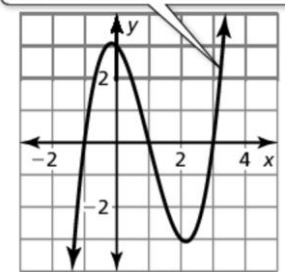
10. $f(x) = (x - 2)(x^2 - x)$



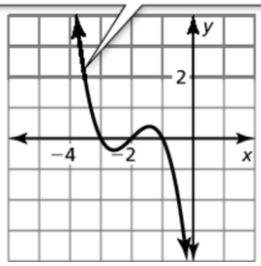
11. $f(x) = (x + 2)(x^2 - 2x + 1)$



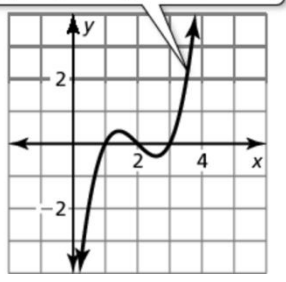
12. $f(x) = (x + 1)(x^2 - 4x + 3)$



13. $f(x) = (x + 3)(-x^2 - 3x - 2)$



14. $f(x) = (x - 1)(x^2 - 5x + 6)$



15. $f(x) = (x - 3)(x^2 - 1)$