

Exercises

* If missing copy Wednesday's notes from friend. Need notes to fully understand.

Extra Help

go.hrw.com

Homework Help Online

KEYWORD: MB7 5-3

Parent Resources Online

Check answer on homework website: asb-bangna-highschool.weebly.com

Find the zeros of each function by factoring.

21. $f(x) = x^2 + 11x + 24$

22. $g(x) = 2x^2 + x - 10$

23. $h(x) = -x^2 + 9x$

Ex: $0 = x^2 + 11x + 24$

$$\begin{array}{r} 12 \quad 4 \quad 3 \\ 2 \quad 6 \quad 8 \end{array}$$

$0 = (x+3)(x+8)$

$x+3=0 \quad x+8=0$
 $x=-3 \quad x=-8$

∴ the zeros of f are -3 & -8

24. $f(x) = x^2 - 15x + 54$

25. $g(x) = x^2 + 7x - 8$

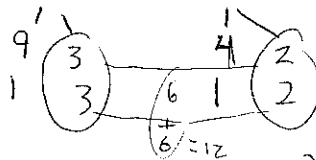
26. $h(x) = 2x^2 - 12x + 18$

Find the roots of each equation by factoring.

28. $x^2 + 8x = -16$

29. $4x^2 = 81$

Ex: 30. $9x^2 + 12x + 4 = 0$



$(3x+2)(3x+2) = 0$

$3x+2=0$

$3x = -2$

$x = -\frac{2}{3}$

Don't need repeat
 ∴ the root of the equation is $-\frac{2}{3}$

31. $36x^2 - 9 = 0$

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

33. $49x^2 = 28x - 4$

Find the zeros of each function.

37. $f(x) = 6x - x^2$

38. $g(x) = x^2 - 25$

39. $h(x) = x^2 - 12x + 36$

40. $f(x) = 3x^2 - 12$

41. $g(x) = x^2 - 22x + 121$

42. $h(x) = 30 + x - x^2$

43. $f(x) = x^2 - 11x + 30$

44. $g(x) = x^2 - 8x - 20$

45. $h(x) = 2x^2 + 18x + 28$

Find the roots of each equation.

48. $x^2 - 2x + 1 = 0$

49. $x^2 + 6x = -5$

50. $25x^2 + 40x = -16$

51. $9x^2 + 6x = -1$

52. $5x^2 = 45$

53. $x^2 - 6 = x$