

Extra Problems from Homework Assignment #2

18. Solve the equation: $15x^2 - 8 = 14x$

21. Write a linear equation in Standard form: $(-5, 1)$ $(10, 6)$

23. Write in Standard form: $2y = \frac{2}{3}x + 4$ Name the intercepts.

25. Write a perpendicular equation to $4x - y = 12$ in Slope-intercept form through $(8, 5)$

30. Graph: $|x - 3y| < 6$

W9. You invest \$10,000 at 6% and 8%. At the end of the year, you earn \$270 in interest. How much did you invest at each rate?

W11. How much water should be added to 40ml of 60% salt solution to reduce to a 40% salt solution?

W14. A rectangle's length is 7 inches more than its width. If the perimeter is 58 inches, what are the dimensions?

W15. My garden's length is 4 feet longer than the width. Adding 2 feet of space on each side will increase the garden 128 ft². What are the new dimensions of the new, larger garden?

WB2. Find all the negative odd integers such that 4 less than 3 times the integer is between -16 and -5.

WB3. Joey is $\frac{9}{10}$ Toey's age. Five years ago, Joey was $\frac{2}{3}$ what Toey will be in 3 years. How old will Toey be next year?