

Chapter 1 Quiz 2

Sections 1.4 through 1.6

Do you know NOW?

Solve each equation. Check your answers.

1. $2x - 3 = 5 + 3$

2. $\frac{1}{2}(x + 4) = x + 3$

3. Write an inequality for each problem. Then solve the equation. Make at least one more than for each. You have to remember that the change more, less. The rate of change is for these all on the same change!

Solve each inequality. Graph the solution.

4. $2x - 3 < 5 + 3$

5. $-3x + 4 > 2$ and $3 - 2x < 2$

6. The city's response of water treatment has not been fast. 40% of the water that enters the city will now be the next several decades. Currently, there are 200,000 people in the city. How many people will live in the next decade?

Solve each equation. Check for extraneous solutions.

7. $2x + 3 = 4 + 3$

8. $3x - 2 = 2x + 1$

9. Solve the inequality $\frac{1}{2}(x + 4) = 2 + 4$ and graph the solution.

10. In a class of 200 students, 12% of the students are added to a million. In 10% of the students of the class, there is a student who is added to the amount of students added.

Do you UNDERSTAND?

11. **Writing** Suppose the rate of change of the number of people in a city is 10% per year. How many people will live in the city in 10 years?

12. **Compare and Contrast** How do the solutions to $x + 1 = 2$ and $x + 1 = 3$ differ?

Chapter 1 Test

Do you know NOW?

Identify a pattern and find the next three numbers in the pattern.

1. $-4, -1, 2, 5$

2. $1, 3, 5, 7, 9, 11$

3. Identify each step by naming the property used.

a. $4(-3 + 2) = 4(-3) + 4(2)$

b. $-3 + 4 = 4 - 3$

c. $-3 + (-2) = -5$

d. $-3 - 2 = -5$

Evaluate the expression for the given value of the variable.

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

5. $\frac{3x - 2}{x + 1} - \frac{2x + 1}{x - 1}$, $x = 2$

6. The expression $15.00 + 0.40x$ models the daily cost in dollars of renting a car. In the expression, x represents the number of miles the car is driven. What is the cost of renting a car for a day when the car is driven 100 miles?

Solve each equation.

7. $3x + 12 = 3x - 24$

8. $3(x + 2) = 18$

Solve each equation for x . State any restrictions on the variables.

9. $3x - 4 = 2x$

10. $\frac{3x - 2}{x + 1} - \frac{2x + 1}{x - 1} = 0$

Solve each formula for the indicated variable.

11. $P = \frac{1}{2}(x_1 + x_2)$, for x_2

12. $P = 2\pi r$, for r

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