

EOC Review Part 1 - Worksheet (no calculators/computers).

Name _

EOC Review Part 1

- 1. Anton joined a golf club two years ago. He pays an annual membership fee of \$895 and a greens fee of \$30 each time he plays a game of golf. The function below can be used to calculate the total yearly golfing fee, f (g), in dollars.
- f(g) = 895 + 30g, where g represents the number of times he played golf during the year. Last year he paid \$2,065 as a total golfing fee. For how many games did he pay a greens fee?

2. For the function f(x) = 3x + 2, find x such that f(x) = 14.

$$\frac{14 = 3x + 2}{-2}$$

$$\frac{12 = \frac{3x}{3}}{4}$$

not y-int

D=X

not y-int

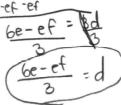
3. Gregory teaches martial arts. He charges a <u>one-time processing fee of \$5.00</u> and the cost of the classes is shown below. Let x represent the number of classes and y represent the cost of classes. Based on this information, what will it cost to take 10 classes?

Cost of classes (not including processing fee)

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	Number of classes, x	1	2	3 ~	4
	Cost of classes,3	15.00	27.00	39.00	51.00
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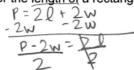
y=12x+3 12(10)+3 123 +5

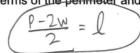
4. Solve the equation. -4(x + 10) - 6 = -3(x - 2) -4x - 40 - 6 = -3x + 6 -4x - 46 = -3x + 6-4x - 6 + 4x - 6 5. Solve for d in the equation 6e = ef + 3d?

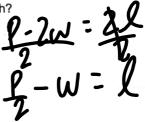


6. The formula for the perimeter P of a rectangle with length I and width W is P = 2I + 2W. Write a formula for the length of a rectangle in terms of the perimeter and width?







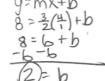


7. How many liters of a 10% silver iodide solution must be mixed with 9 liters of a 4% silver iodide solution to get a 6% solution?



8. Mia is a sales associate at an art gallery. Each week she earns \$300 plus a 4% commission of all her sales. This week she earned \$327. How much were Mia's art sales this week?

9. What is the y-coordinate of the y-intercept of the line that passes through the points (-4, -4) and (4,





10. Write an equation in standard form for the line passing through the points (3, 2) and (-9, 6)?

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(3, 2) $2 = \frac{1}{3}(3) + b$ $4 = \frac{1}{3} \times 4 = 3$ $2 = \frac{1}{3}(3) + b$ $4 = \frac{1}{3} \times 4 = 3$ 3 = b $3 = \frac{1}{3} \times 4 = 3$ 3 = b $3 = \frac{1}{3} \times 4 = 3$

11. Write an equation of the line passing through the point (4, -16) and is perpendicular to the line

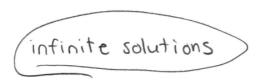
12. Determine the number of solutions based on the graph for the following system of equations.

$$2x + 5y = 7 \text{ and } 10y = -4x + 14$$

$$5y = -2x + 7$$

$$y = -\frac{2}{5}x + \frac{7}{5}$$

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Infinite solutions



Boom Card Algebra 1 Review