

Algebra Review #30 SHOW HOW YOU SOLVED EACH PROBLEM

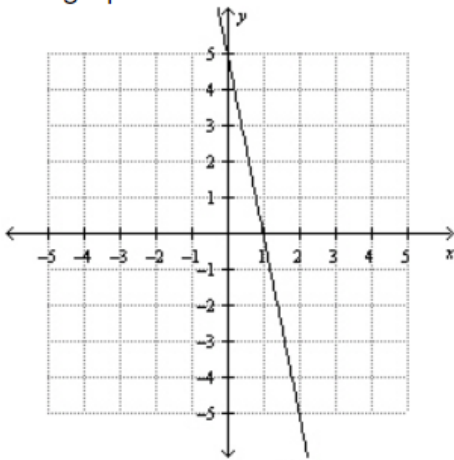
1. Which statement is always true?

- a. $b + a = ab$
- b. $b + (-a + a) = b + 0$
- c. $a \div b = b \div a$
- d. $b - a = a - b$

2. If $f(x) = \frac{3-x^2}{3-x}$, what is $f(2)$?

- a. -2
- b. -1
- c. 1
- d. 2

3. The graph of the function $f(x) = -5x + 5$ is shown.



What is the value of $f(5)$?

- a. 5
- b. 0
- c. -4
- d. -20

NAME _____

4. If $\frac{1}{3}t - 6 = 15$, what is the value of t ?

- a. 21
- b. 27
- c. 53
- d. 63

5. The table shows the clothing purchases Jenny made last month and the tax charged for each purchase.

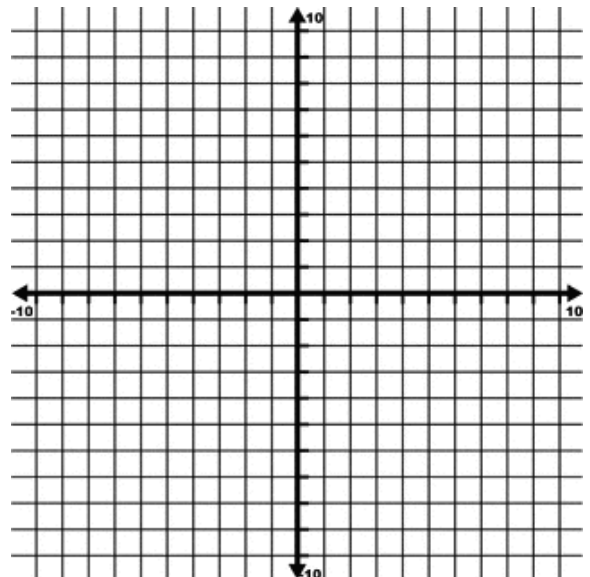
Clothing Purchases (in dollars), c	Tax (in dollars), t
35	3.15
40	3.60
22	1.98
68	6.12
74	6.66
31	2.79

Which equation represents the line that *best* fits the data?

- a. $t = 0.09c + 2.89$
- b. $t = 0.91c$
- c. $t = 0.09c$
- d. $t = 1.09c$

6. Draw a graph of the equation $-8y + 32 = 2x$

Slope: _____ Y-intercept: _____

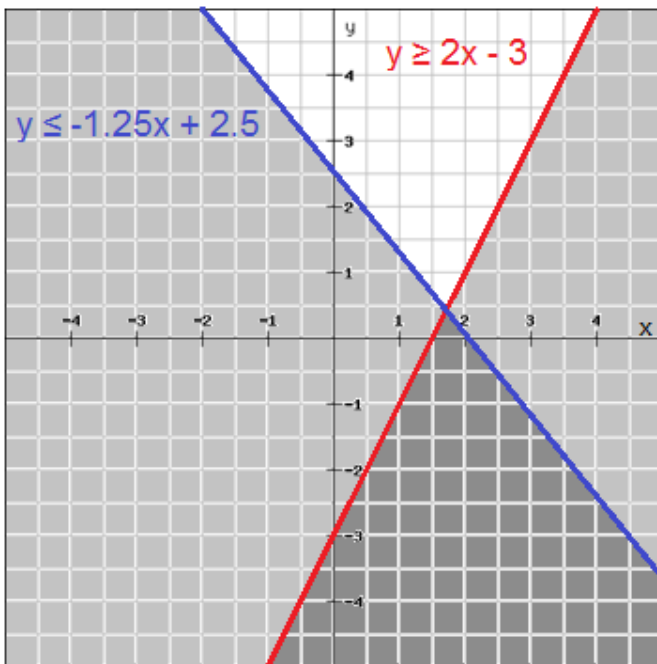


7.

What is $\sqrt{180}$ written in simplest radical form?

- a. $5\sqrt{6}$
- b. $4\sqrt{45}$
- c. $6\sqrt{5}$
- d. $6\sqrt{30}$

8. Answer the following:



Is $(3, -3)$ a solution to this system? YES or NO

Is $(-3, 0)$ a solution to this system? YES or NO

9.

Which expression is equivalent to $(a^2bc^3)(3a^3bc^4)^2$?

- A. $6a^{12}b^2c^{24}$
- B. $6a^8b^3c^{11}$
- C. $9a^{12}b^2c^{24}$
- D. $9a^8b^3c^{11}$

10. Solve for b:

$$4bh - B = A$$