

Unit 2 HW 7

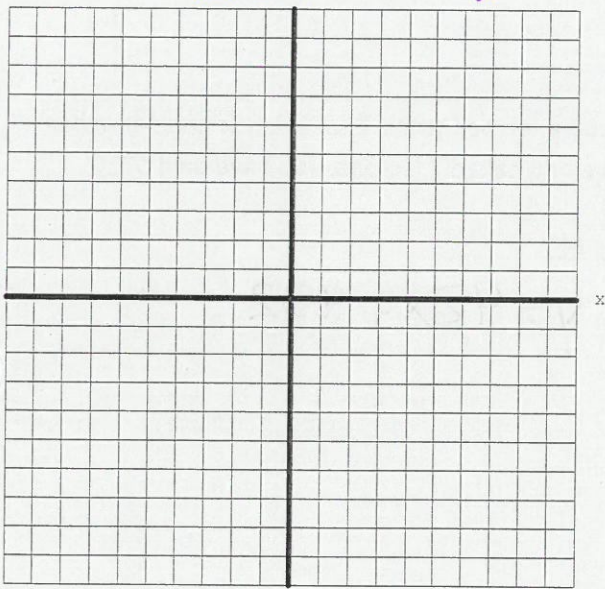
Name Key NO WORK Date \_\_\_\_\_ Period \_\_\_\_\_

Graph each linear equation using any method

1.  $3x - 2y = 12$

$y = \frac{3}{2}x - 6$

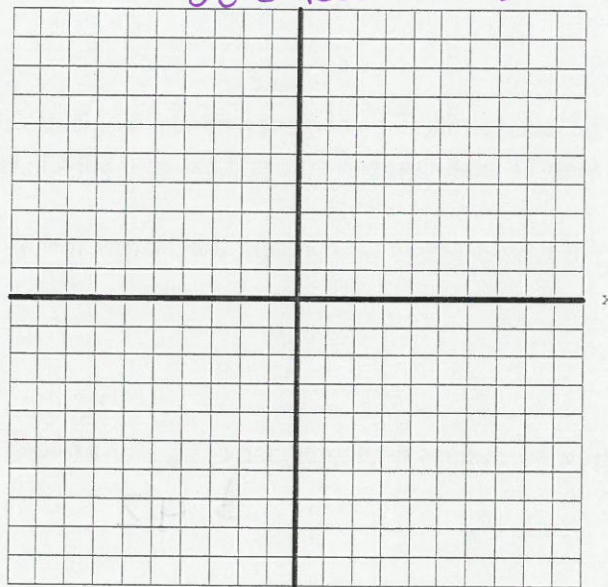
see teacher ↴



2.  $2x + 4y = 20$

$y = -\frac{1}{2}x + 5$

see teacher ↴



3. Mr. Sacco Challenges Mr. Paul to a 1 mile race. Mr. Sacco's speed was 13 feet/second while Mr. Paul's speed was 9.6 miles/hour. Who won the race?

Mr. Paul  
show work  
know why

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Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

Show your work for full credit. Use appropriate answers.

4. Simplify.  $-16(-3)^2 + 3(-3) + 57$

$-96$

5. Solve.  $\frac{-13-18x}{37} = 41$

$x = -85$

6. The local tennis club charges an annual fee. It also charges you a fee per tennis lesson. My friend Sarah has taken 11 lessons at the club, and has paid \$894 in fees. I have only taken 7 lessons, and have paid \$726.

a. Write an equation to represent the charges for the tennis club.

$y = 42x + 432$

b. How much does the tennis club charge for a tennis lesson?

$\$42$

c. How much is their annual fee?

$\$432$

d. If I want to take 10 lessons, how much money will I have to pay the tennis club in total?

$\$852$

e. If someone paid \$1104 in fees this year, how many tennis lessons have they taken?

16 Lessons