

Unit 2 HW 6

Name_____

Date_____

Period_____

Show your work for full credit. Use appropriate answers.

1. Simplify $-16(-4)^2 + 28(-4) - 57$

2. Solve $\frac{2}{3x-13} = \frac{5}{3x+8}$

3. With the rising prices of gas, fuel economy (MPG) has become an important factor in purchasing a car. A 2014 Chevy Malibu is rated at 29 miles/gallon. The Volkswagen Passat is rated in Germany at 14 Kilometers/Liter. Which car has the better fuel economy?

Find the slope of the line between the two given points.

4. $(-3, 7)$
 $(-5, -7)$

5. $(16, -9)$
 $(6, -4)$

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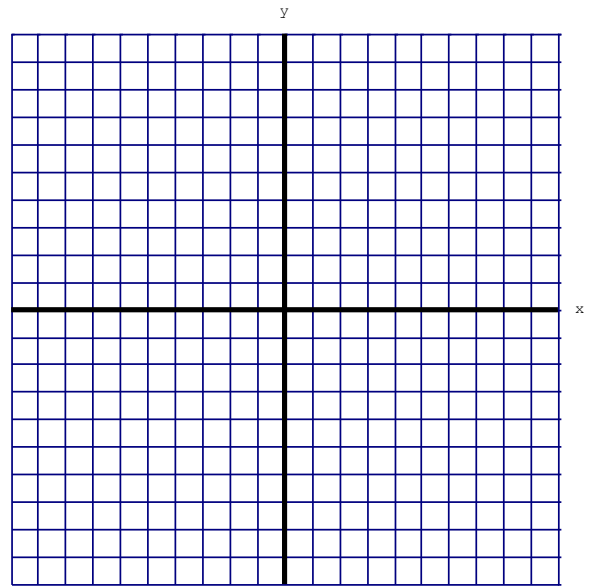
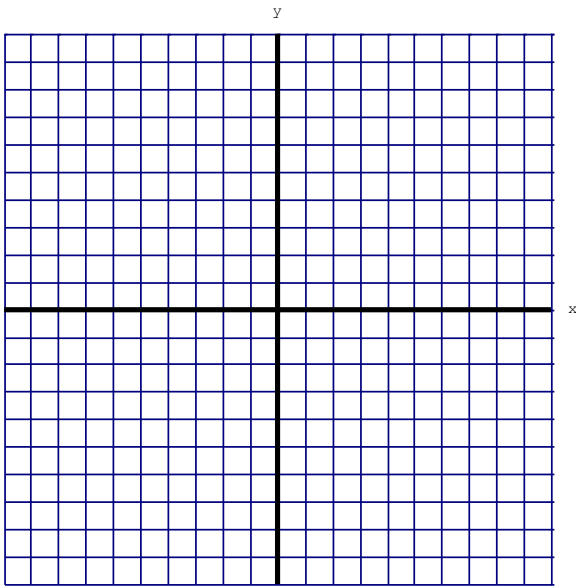
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Graph each linear equation using any method

6. $7x + 2y = 16$

7. $-21x - 6y = 24$



8) Which of the following ordered pairs is a solution to the $7x + 4y = -8$ (circle all that apply)

- a. (4, 9) b. (8, -16) c. (-4, -9) d. (12, 19) e. (0, -2) f. (-36, 61)

9) Which of the following ordered pairs is a solution to both equations? (circle all that apply)

$$\begin{aligned} 2x - 3y &= -2 \\ 4x + y &= 24 \end{aligned}$$

- a. (-1, 0) b. (3, 12) c. (7, -4) d. (-1, 0) e. (5, 4) f. (-2, 2)