

Bellwork: Algebra 1

1. WELCOME BACK! :)
2. Write down your homework for the night.
3. All you need is a pencil and a calculator.
4. Answer the following question on your WEDNESDAY Bellwork:

Solve the following:

$$5x + 3(2x - 8) = 20$$

$$5x + 6x - 24 = 20$$

$$11x - 24 = 20$$
$$+24 \quad +24$$

$$\frac{11x = 44}{11 \quad 11}$$
$$x = 4$$

When would it not be beneficial to graph systems to find their solution?

$$1) 4x + 34 - x^2$$

$$x = 5$$

$$2) 4(x - 3) + 8x$$

$$x = -8$$

$$3) (x+5)^2 - 12x$$

$$x = 7$$

$$4) -24x + 8x - 13$$

$$x = -2$$

$$5) \begin{cases} 2x + 8y = 20 \\ y = 2 \end{cases}$$

$$6) \begin{cases} x = 5 \\ 2x + y = 10 \end{cases}$$

$$7) 4x + 14y = 4$$
$$y = -2$$

$$8) -5x + 6y = 67$$
$$x = 7$$

$$9) \begin{aligned} 2x + 6y - 12 \\ y = 8x \end{aligned}$$

$$10) \begin{aligned} 25 - 2y + 7x \\ x = 3y \end{aligned}$$

$$11) \begin{aligned} 4x + 9y - 1 \\ x = y + 5 \end{aligned}$$

$$12) \begin{aligned} -3x + 8y + 4 \\ y = 2x - 1 \end{aligned}$$

$$13) 5x - 2y = 3$$

$$y = 2x$$

$$5x - 2(2x) = 3$$

$$5x - 4x = 3$$

$$x = 3$$

$$y = 6 \quad (3, 6)$$

$$\begin{array}{r} 15 - 2y = 3 \\ -15 \quad \quad -15 \end{array}$$

$$-2y = -12$$

$$y = 6$$

$$14) 2y + x = -15$$

$$x = 3y$$

$$2y + 3y = -15$$

$$5y = -15$$

$$y = -3$$

$$x = -9$$

$$\begin{array}{r} \text{[scribble]} \\ (-9, -3) \end{array}$$

$$15) \begin{cases} 4x + 7y = 19 \\ y = x + 9 \end{cases}$$

$$16) \begin{cases} y = 6x + 11 \\ 2y - 4x = 14 \end{cases}$$

$$17) \begin{aligned} 2x - 8y &= 6 \\ y &= -7 - x \end{aligned}$$

$$18) \begin{aligned} x &= 2y - 1 \\ 3x - 2y &= -3 \end{aligned}$$