Bellwork Wednesday, November 16, 2016 Alg 2A

Solve each system of equations using either Elimination or Substitution. You must use each method TWICE. Your work must match the method you've stated. State answers as ordered pairs.

1. Which Method?	hich Method?	h Meth	Which	1.
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$$3x + 2y = -3.25$$

$$8x - 6y = 31$$

$$4a + b = 50$$

$$5a + 7b = 97$$

$$7g + 3h = -50$$

$$6g - 2h = -20$$

$$18x - 6y = 48$$

$$14x - 4y = 34$$

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Solve each system of equations using either Elimination or Substitution. You must use each method TWICE. Your work must match the method you've stated. State answers as ordered pairs.

$$3(3x + 2y = -3.25) \rightarrow 9x + 6y = -9.75$$

$$8x - 6y = 31$$
 $\longrightarrow + 8x - 6y = 31$

1. Which Method? ELimination
$$3(3x + 2y = -3.25) \rightarrow 9x + 6y = -9.75$$

$$8x - 6y = 31 \rightarrow 8x - 6y = 31$$

$$(1.25, -3.5)$$

$$17x = 21.25$$

$$3(1.25) + 2y = -3.25 + x = 1.25$$

$$3.11 + iy = 3.23$$

$$2y = -7/2$$
 $y = -3.3$

$$7g + 3h = -50$$
 (-5, -5)

$$3(1.25) + 2y = -3.25$$
 $= x = 1.25$
 $3.75 + 2y = -3.25$
 $2y = -7/2$ $= -3.5$
3. Which Method? Substitution
 $7g + 3h = -50$ $= -50$
 $6g - 2h = -20$ $= -6g$

$$7g+3(10+3g) = -50 - 2h = -20-6g$$

$$7g+30+9g = -50$$

$$16g+30 = -50$$

$$16g = -80/6$$

$$9 = -5 - h = 10+3(-5)$$

$$h = 10+-15$$

$$h = -5$$

2. Which Method? Substitution
$$4a+b=50$$
 $\Rightarrow b=50-49$

$$5a+7b=97$$
 $5a+7(50-4a)=97$
(11)

$$\frac{-23q = -253}{-23} \quad Q = 1$$

4. Which Method? Elimina from
$$2(18x - 6y = 48) \rightarrow 36x - 12y = 96$$

 $3(14x - 4y = 34) - 42x - 12y = 102$

$$-6x = -6$$

$$x = 1$$
 (1, -5)

b=50-4(11) 50-44 6=6

$$-4y = 34$$

 $-4y = 20/4$ $y = -5$