Unit 4 Day 14: Review Day

Focus Question: Can I solve a system by choosing an efficient method?

Determine which system has zero, one, and infinite solutions. Explain why each occurs. If it is one solution,

decide if the lines are perpendicular. Check your answer by graphing.

A.
$$3x - 6y = 24$$

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

3x - 6(-/2x-2)=24

$$-6x + 12y = 4$$

decide if the lines are perpendicular. Check your answer by graphing.

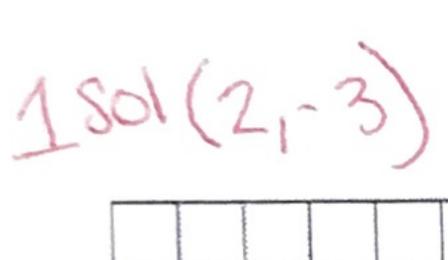
A.
$$3x - 6y = 24$$

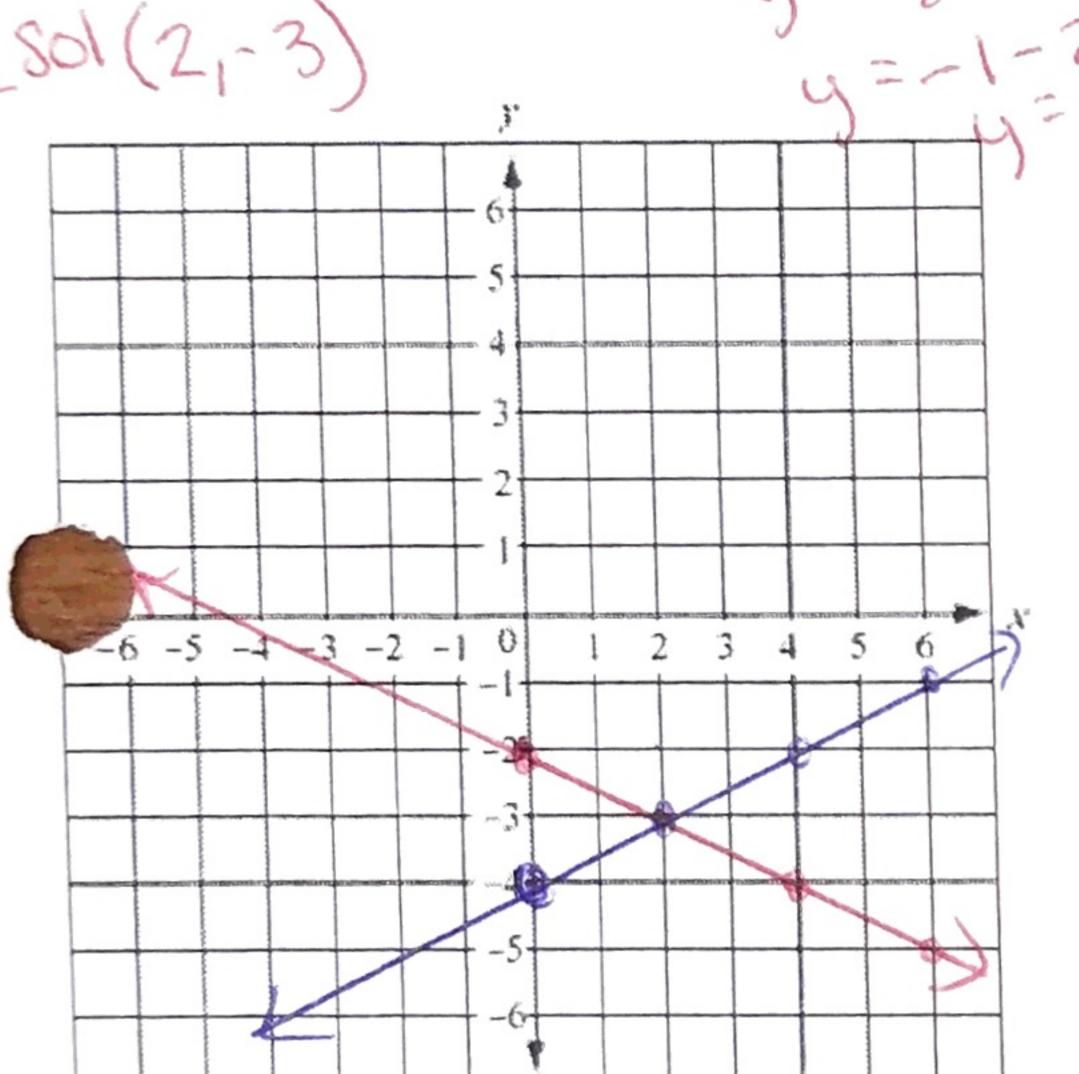
$$y = -\frac{1}{2}x - 2$$

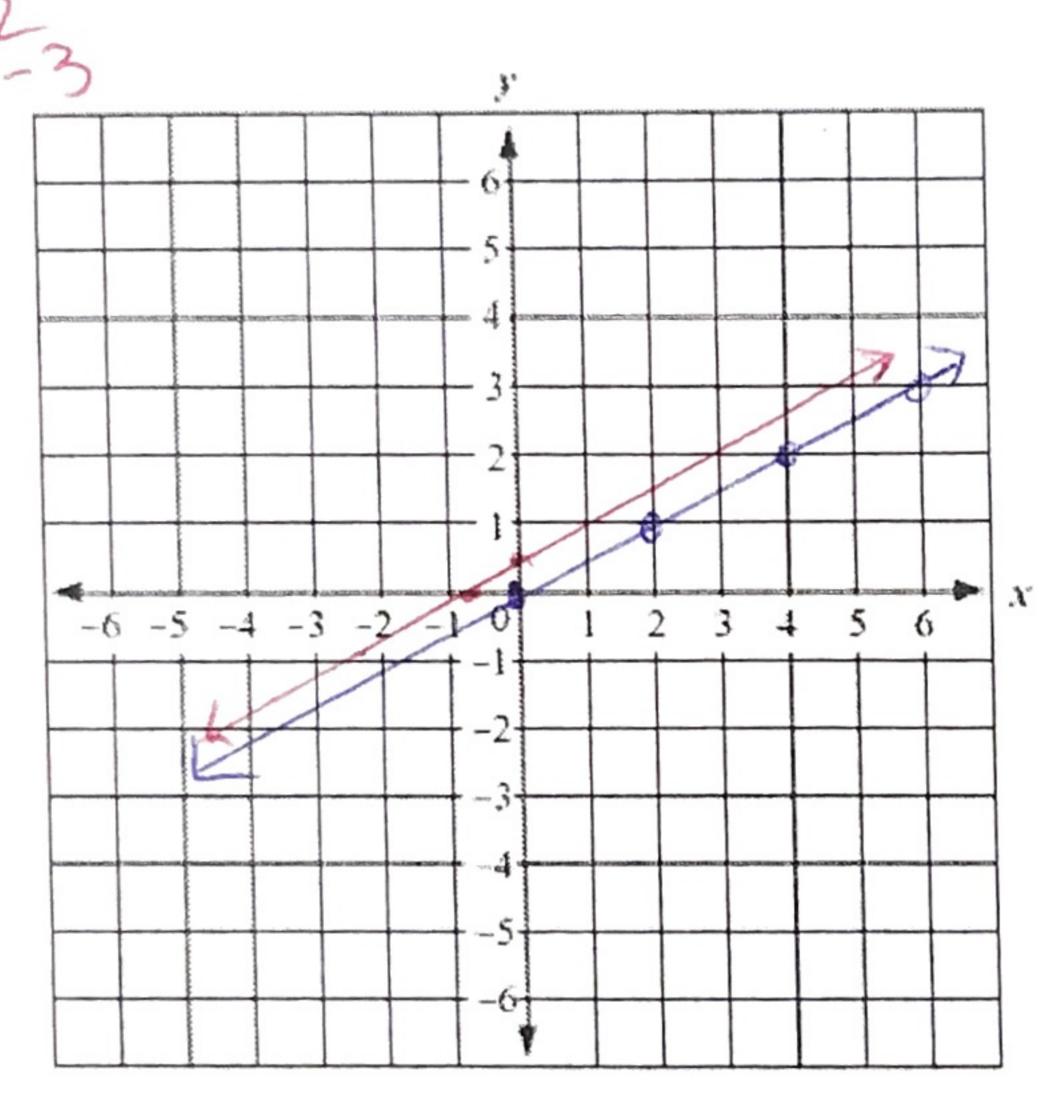
$$-6x + 12y = 4$$

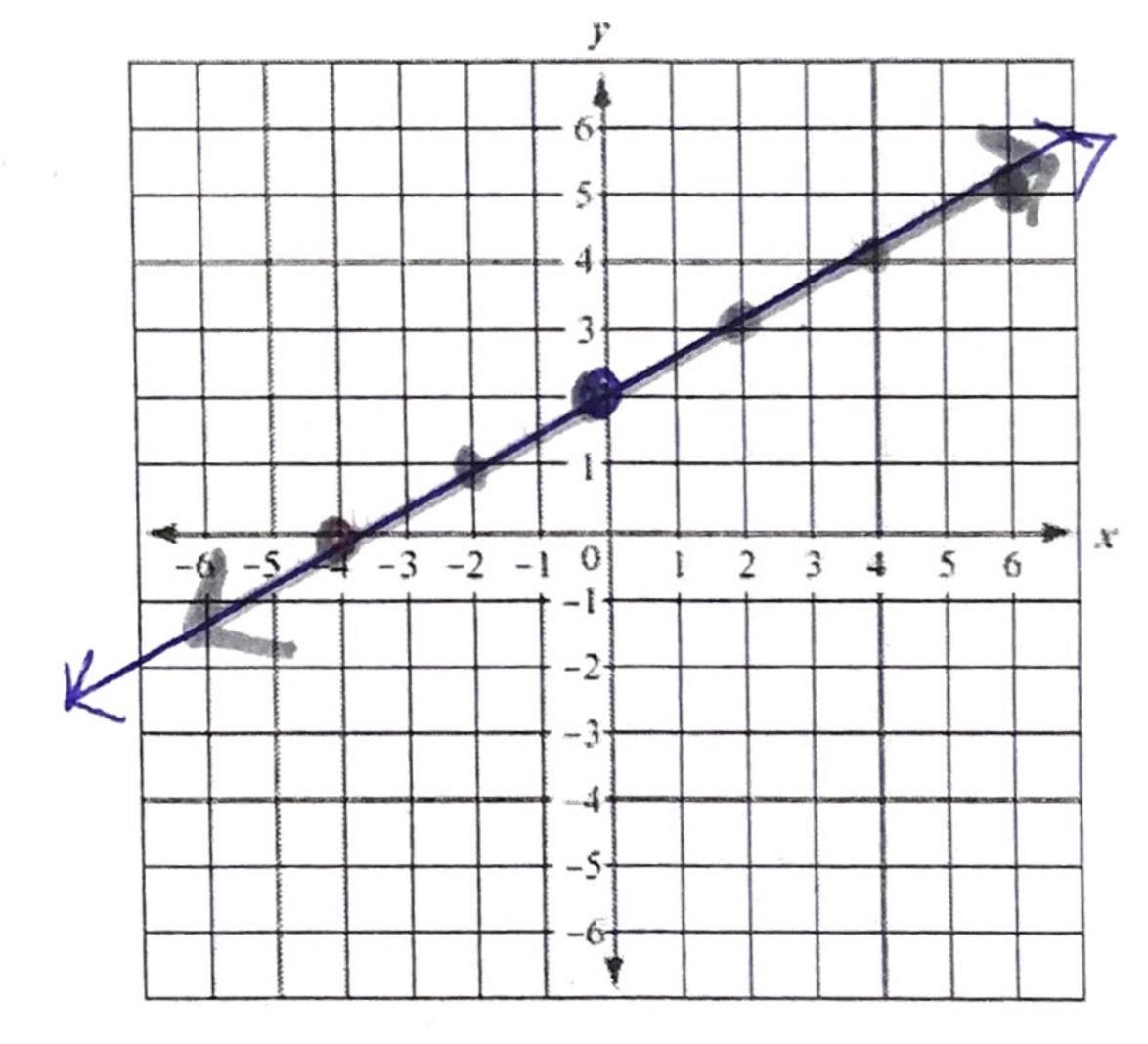
$$y - 5 = \frac{1}{2}(x - 6)$$

$$y - 5 = \frac{1}{2}(x - 6)$$









Do your work for the following problems on your own paper.

Problem	Variables	Equations	Best Method	Answer
Phone company A charges a	1: COS+	1-11-27	f(x) = q(x)	TO
customer enrollment fee of \$30 and	A (compA)	CA- TUNNOU	1 Cas	77 non
\$40 per month. Phone company B				only
charges \$60 per month but only a	M-#-0+ 4M	5	0 20	MONON
\$5 enrollment fee. When would it	III WOUNT		UBTUA	Mari
be best to choose company B?	B (compB)	()=100m+)		having
		MB.		in shoul
When will D				Troop.
Comp				1 mont
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he ba	larsha is buying plants and soil for er garden. The soil cost \$4 per ag, and the plants cost \$10 each. The wants to buy at least 5 plants and can spend no more than \$100.	X° # of bags of Soil Y° # of Plants	4x+10y < 100 y ≥ 5	Graph	possible (3,7) or (5,16)
S V I	a breakfast menu list 2 eggs with 1 ausage patty for \$2.23 and 3 eggs with 2 sausage patties for \$3.76. How much would you expect to pay or the Glutton's Breakfast of 5 eggs and 7 sausage patties?	Si cost of sausage	3e+2s=3.76	EliM	\$9.31
	You pay \$24.50 for 10 gallons of gasoline and 1 quart of oil at a gas station. Your friend pays \$22 for 8 gallons of the same gasoline and 3 quarts of the same oil. Find the cost of 1 gallon of gasoline.	D'oil	109 + 9 = 24.57 $89 + 39 = 22$	Climinate (que 9)	9~\$ 2.34
	Kennedy High School was selling bumper stickers and shirts as a fundraiser for their student council. They were keeping orders similar to the table below. Customer Bumper Stickers Shirts Tot Margie 2 5 53 Jack 3 4 48 They know Janice bought 1 bumper sticker and 3 shirts. How much was Janice's total?	so costof So costof Shirts	3(26+55)=5	3.3 Elim.	\$31

60m+5 < 40m+30 -40m -40m 20m+5 < 30 -5! -5

Heths = 4.46
$$e=60.70$$
 5e+7s

 $3e+3=3.76$ $5(.7)+7(.83)$
 $e=7$ 9.31
 $2(.7)+8=2.33$ $s=83$
 $1.40+8=2.33$
 -1.40 -1.40
 $S=.83$

Kennedy High School (ab + 15s = 159
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