Ⓐ

The ski hill's rental office has two options for renting a snowboard: a flat fee of $50/day or a fee of $20 plus $7/hour.

Ⓑ

Sami bought 2m of chain and 6m of wire for $28. Micah bought 3m of wire and 5m of chain for $22.

Ⓒ

A customer has collected 61 store vouchers worth $4.75. The vouchers come in denominations of $0.10 and $0.05.

Ⓓ

Cam and Sam are twins mowing lawns for the summer. They each spent $75 on a used lawn mower. Cam charges 10/lawn and Sam charges 12/lawn.

Ⓔ

Private detective Q earns $500 for every 4 days of work Detective R earns $125.day.

Ⓕ

Two students are each walking at a speed of 5 m/s. The first student enters the crosswalk 3 seconds before the other.

Ⓖ

On planet X 2 zerkels plus 1 zapdaw are worth 3. 10 zerkels have the same value as 15 less 5 zapdaws.

Ⓗ

Credit card ABC charges a fee of $5/month and 8% interest on the amount spent. Credit card XYZ charges a fee of $2/month and 12% interest on the amount spent.

Ⓘ

88 tickets were sold for a school raffle. Adult tickets were $10 and child tickets were $5. The total amount raised was $700.

Ⓙ

A large bird flies at a rate of 5km/hr. A small rodent can run 15 km in 3 hours. The rodent has a 1 km head start running from the bird.

Ⓚ

$y = 5x$

$y = (15/3)x + 1$

Ⓛ

$x + y = 61$

$0.10x + 0.05y = 4.75$

Ⓜ

$y = 12x + 75$

$y = 10x + 75$

Ⓝ

$x + y = 88$

$10x + 5y = 700$

Ⓞ

$y = (500/4)x$

$y = 125x$

Ⓟ

$y = 50$

$y = 7x + 20$

Ⓠ

$0.12x - y = -2$

$y = 5 + 0.08x$

Ⓡ

$2x + y = 3$

$10x = 15 - 5y$

Ⓢ

$2x + 6y = 28$

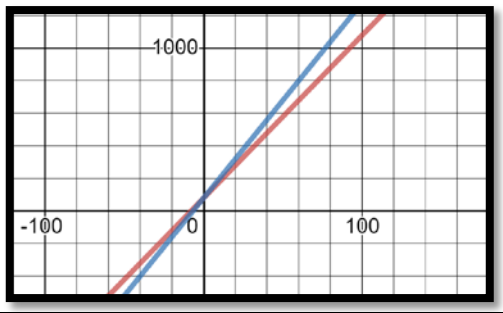
$5x + 3y = 22$

Ⓣ

$y = 5x - 3$

$y = 5x$

Ⓤ



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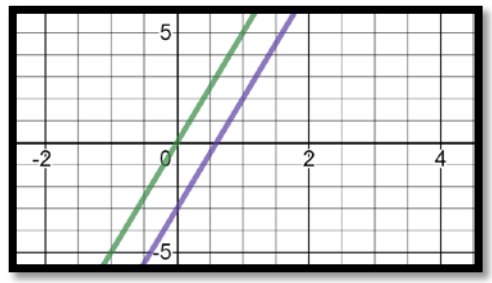

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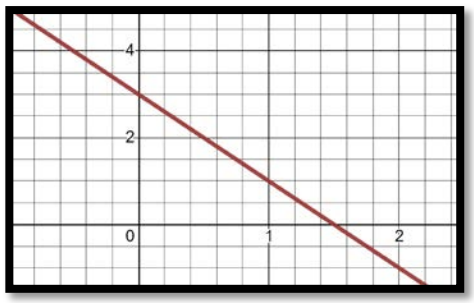

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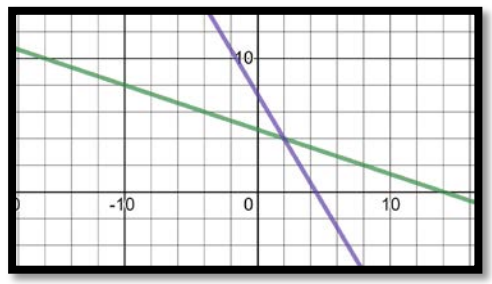

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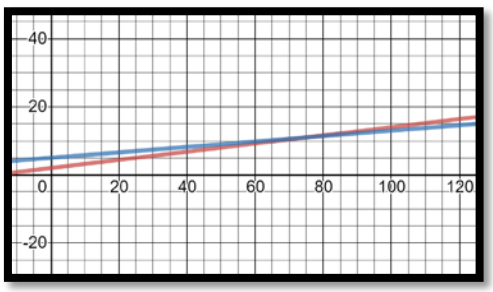

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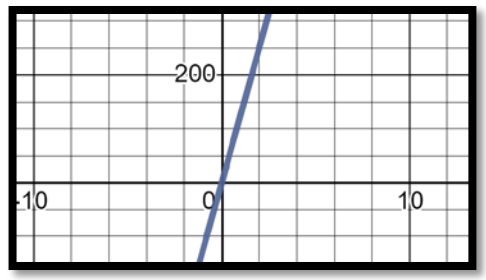
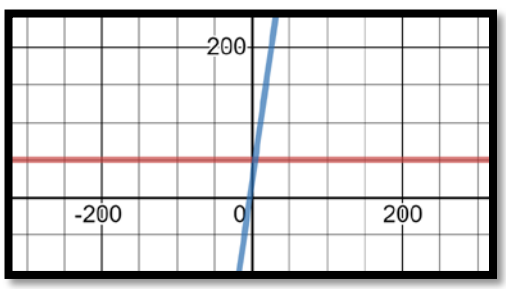


ⓐ



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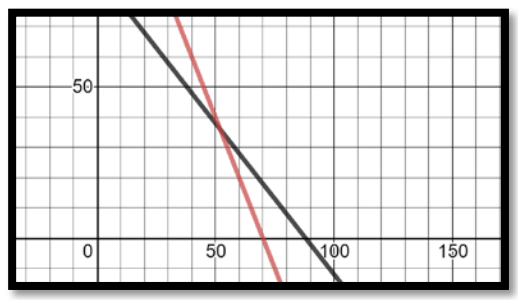

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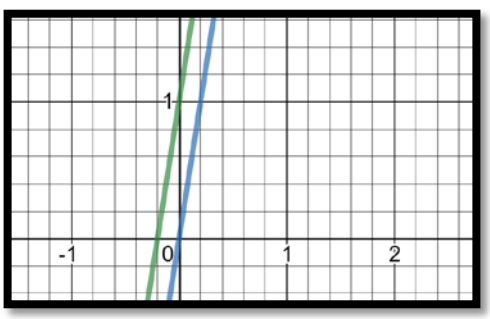

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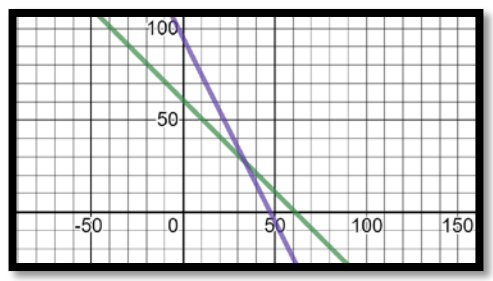
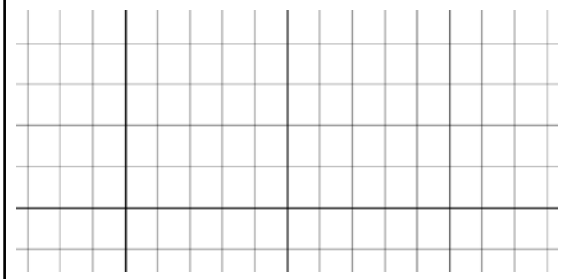
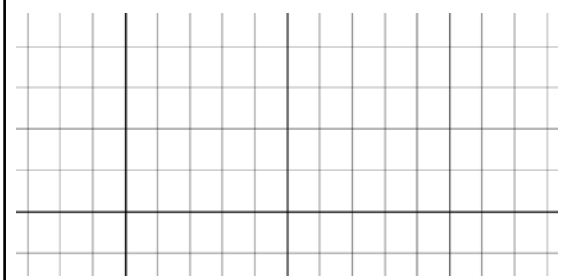
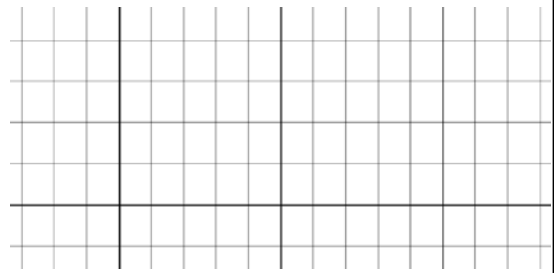
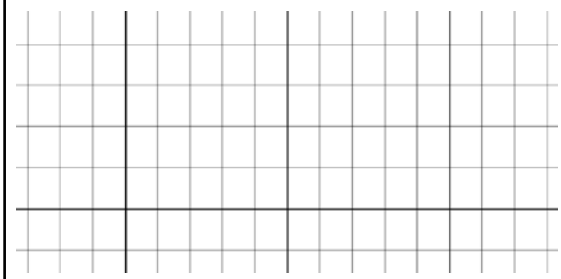
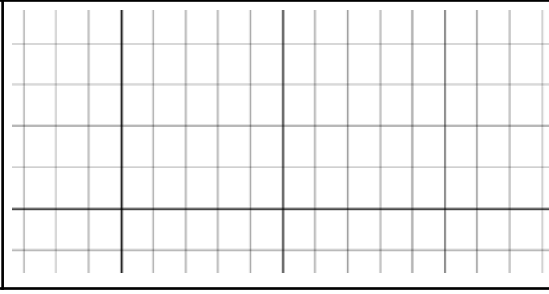
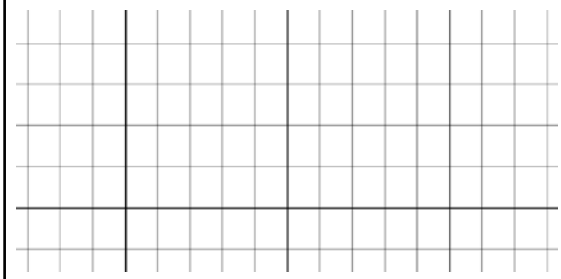
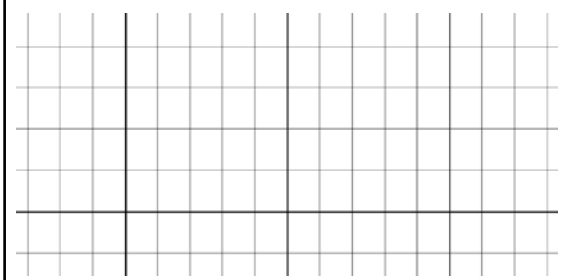
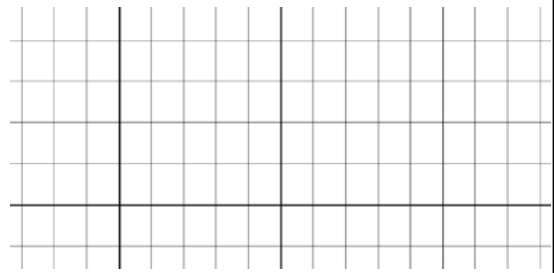
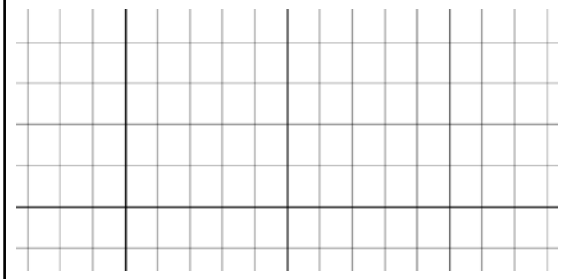
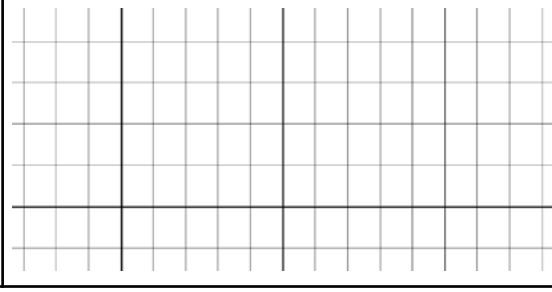


Systems of Linear Equations – Recording Sheet

Situation	Equations	# of Solutions	Sketch the Graph
Ⓐ			
Ⓑ			
Ⓒ			
Ⓓ			
Ⓔ			

Version A – record by hand (1)

Systems of Linear Equations – Recording Sheet

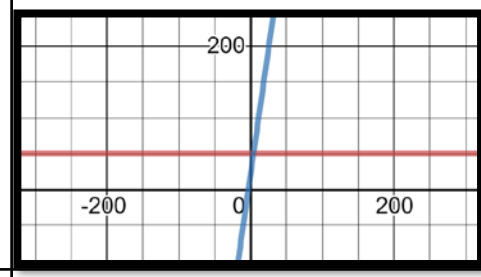
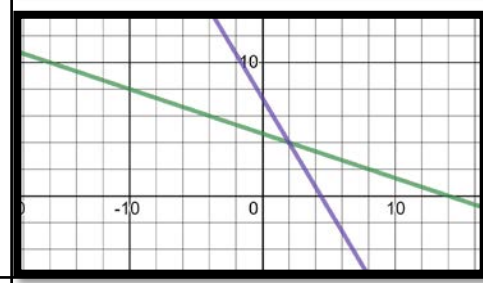
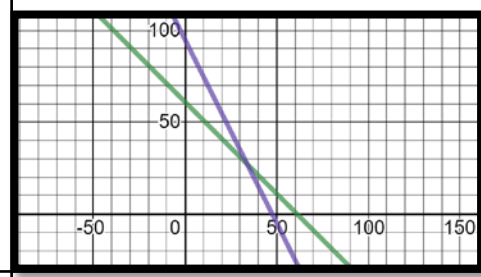
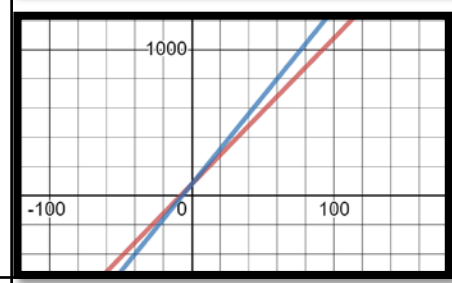
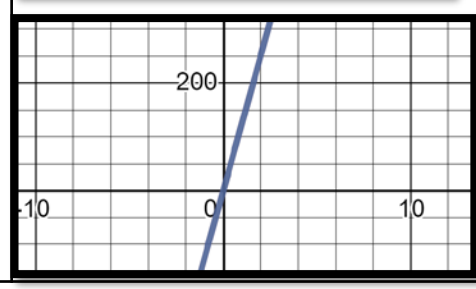
Situation	Equations	# of Solutions	Sketch the Graph
Ⓕ			
Ⓖ			
Ⓗ			
Ⓘ			
Ⓙ			

Version A – record by hand (2)

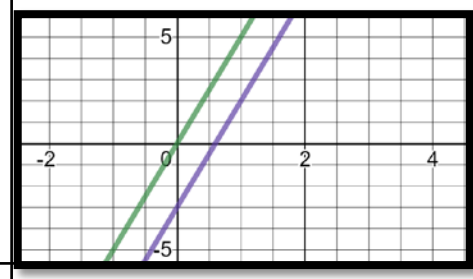
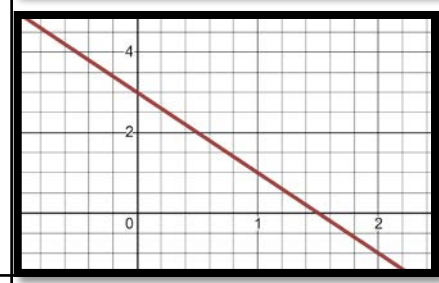
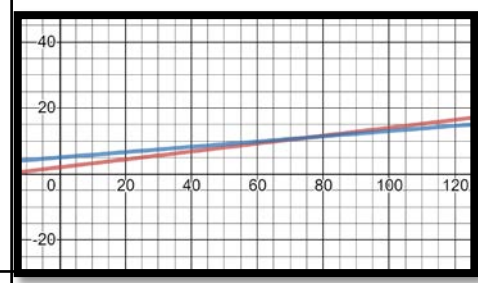
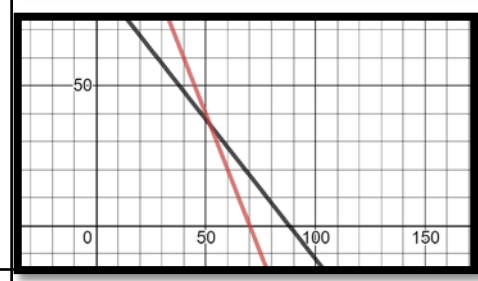
Systems of Linear Equations – Answers (quick reference)

Situation	Equations	# of Solutions	Graph
Ⓐ	Ⓟ	one	ⓐ
Ⓑ	Ⓢ	one	Ⓧ
Ⓒ	Ⓛ	one	ⓓ
Ⓓ	Ⓜ	one	Ⓤ
Ⓔ	Ⓞ	infinite	Ⓩ
Ⓕ	Ⓣ	none	Ⓥ
Ⓖ	Ⓡ	infinite	Ⓦ
Ⓗ	Ⓠ	one	Ⓨ
Ⓘ	Ⓝ	one	ⓑ
Ⓙ	Ⓚ	none	ⓒ

Systems of Linear Equations – Answers (full)

Situation	Equations	# of Solutions	Sketch the Graph
Ⓐ	Ⓟ $y = 50$ $y = 7x + 20$	one	 ⓐ
Ⓑ	Ⓢ $2x + 6y = 28$ $5x + 3y = 22$	one	 ⓧ
Ⓒ	Ⓛ $x + y = 61$ $0.10x + 0.05y = 4.75$	one	 ⓓ
Ⓓ	Ⓜ $y = 12x + 75$ $y = 10x + 75$	one	 ⓤ
Ⓔ	Ⓞ $y = (500/4)x$ $y = 125x$	Infinite	 ⓩ

Systems of Linear Equations – Answers (full)

Situation	Equations	# of Solutions	Sketch the Graph
F	T $y = 5x - 3$ $y = 5x$	none	V 
G	R $2x + y = 3$ $10x = 15 - 5y$	infinite	W 
H	Q $0.12x - y = -2$ $y = 5 + 0.08x$	one	Y 
I	N $x + y = 88$ $10x + 5y = 700$	one	b 
J	K $y = 5x$ $y = (15/3)x + 1$	none	C