Elimination Task Cards

Print double-sided, flipping on the long edge. Cut along the frames.

1

Add.

$$\begin{array}{rr} & 3x + 4y - 7 \\ + & 5x - 4y + 2 \\ \hline \end{array}$$

2

Subtract.

$$\begin{array}{rr} & 7x + 3y + 5 \\ - & 2x + 3y - 4 \\ \hline \end{array}$$

3

Add equation A and equation B.

A $3x + 4y = 17$

B $5x - 4y = 7$

What happens? Find x and y.

4

Solve the system.

A $7x + 3y = 17$

B $2x + 3y = 7$

5

Solve the system.

A $3x + 2y = 11$

B $7x - 4y = 17$

Nothing matches yet.
Can you make one pair of terms match?

6

Solve the system.

A $6x - 5y = -37$

B $2x + 3y = 11$

Elimination Task Cards — Backs

Answers for the cards on the other side of this sheet.

2 — answer

$5x + 9$

1 — answer

$8x - 5$

4 — answer

$(2,\ 1)$

3 — answer

$(3,\ 2)$

6 — answer

$(-2,\ 5)$

5 — answer

$(3,\ 1)$

Elimination Task Cards

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7

Solve the system.

A $2x + 3y = 11$

B $3x - 5y = 7$

Can you still make a pair of terms match?

8

Solve the system.

A $4x + 3y = 17$

B $6x - 5y = -22$

Bonus A

A $5x - 3y = 22$

B $2x - 3y = 7$

A group subtracted B from A and wrote $3x - 6y = 15$.
What went wrong? Fix it and solve.

Bonus B

Solve each system.
What would each graph look like?

I		II	
A	$4x - 6y = 10$	**A**	$4x + 6y = 10$
B	$6x - 9y = 21$	**B**	$6x + 9y = 15$

Bonus C

Solve the system.

A $3x = 5 - 2y$

B $4x - 22 = 5y$

Bonus D

A $3x + 8y = 31$

B $5x - 4y = 17$

You could eliminate x or y.
Which takes less work?
Solve it that way.

Elimination Task Cards — Backs

Answers for the cards on the other side of this sheet.

8 — answer

$\left(\frac{1}{2},\ 5\right)$

7 — answer

$(4,\ 1)$

Bonus B — answer

I: no solution

II: infinitely many solutions

Bonus A — answer

$(5,\ 1)$

Bonus D — answer

$(5,\ 2)$

Bonus C — answer

$(3,\ -2)$