INDEPENDENT VARIABLE

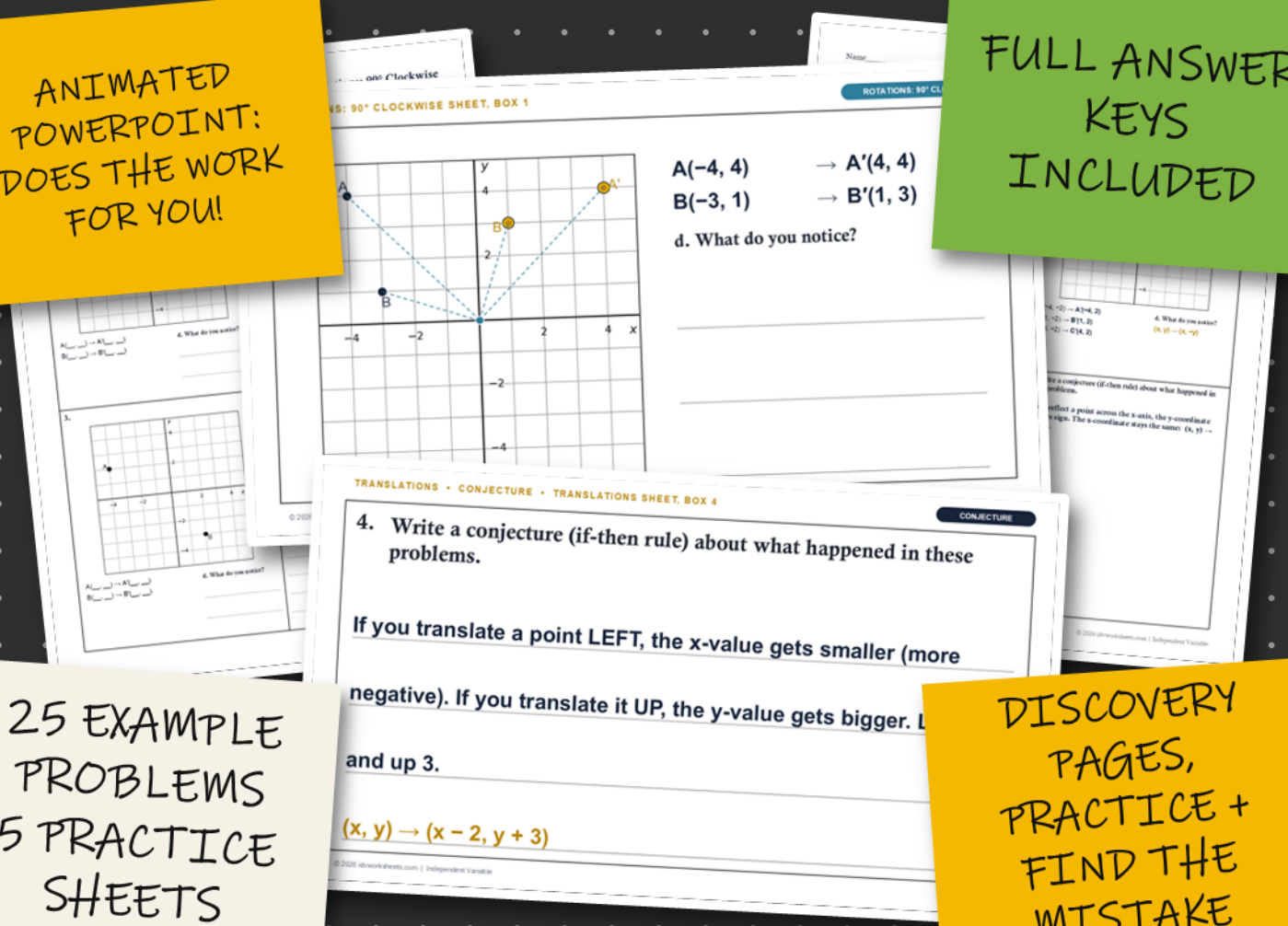
IDV WORKSHEETS

TRANSFORMING COORDINATE POINTS

TRANSLATE | REFLECT | ROTATE | DISCOVER THE RULES

ANIMATED POWERPOINT: DOES THE WORK FOR YOU!

FULL ANSWER KEYS INCLUDED



25 EXAMPLE PROBLEMS
5 PRACTICE SHEETS

DISCOVERY PAGES, PRACTICE + FIND THE MISTAKE

MORE PRACTICE. LESS PREP. BETTER OUTCOMES.

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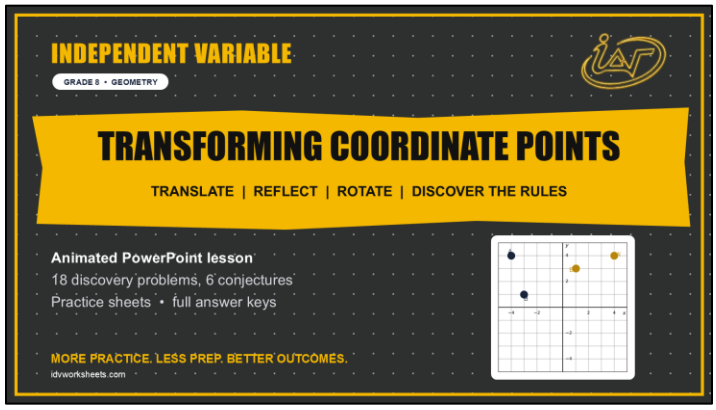
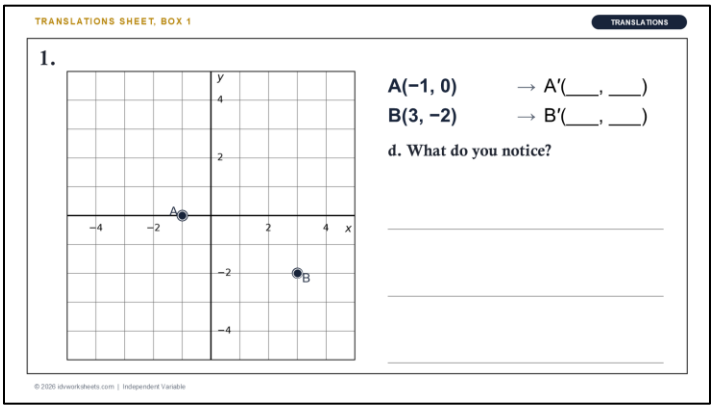
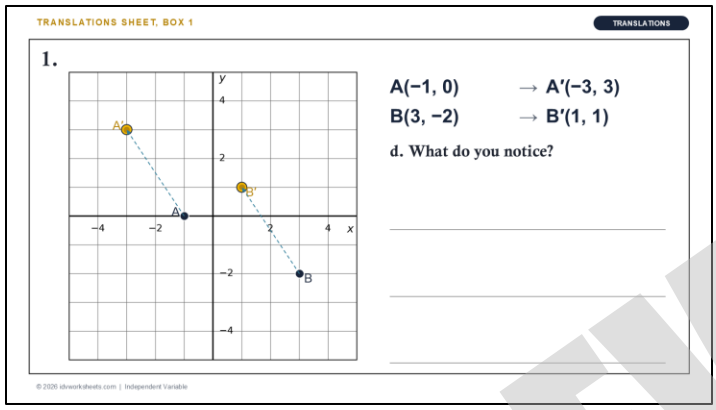
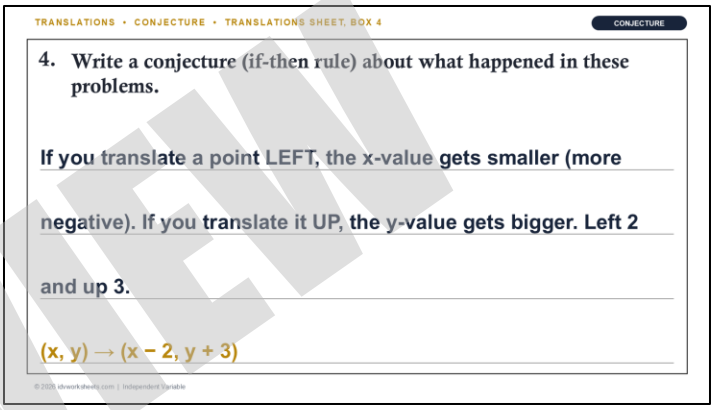
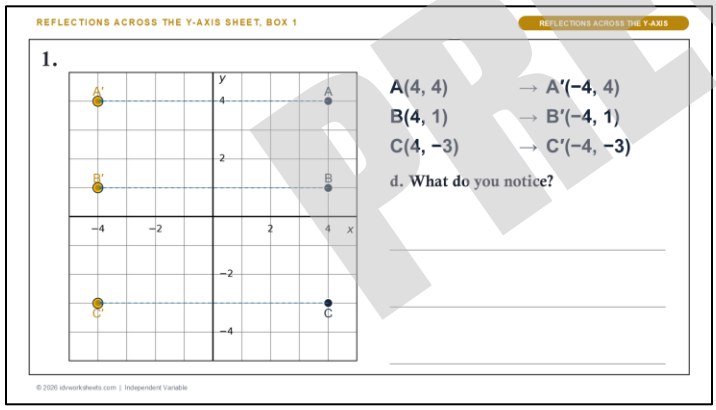
Inside the Animated Lesson

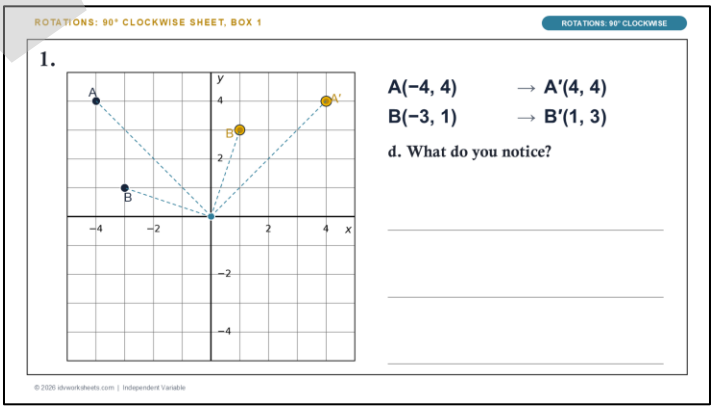


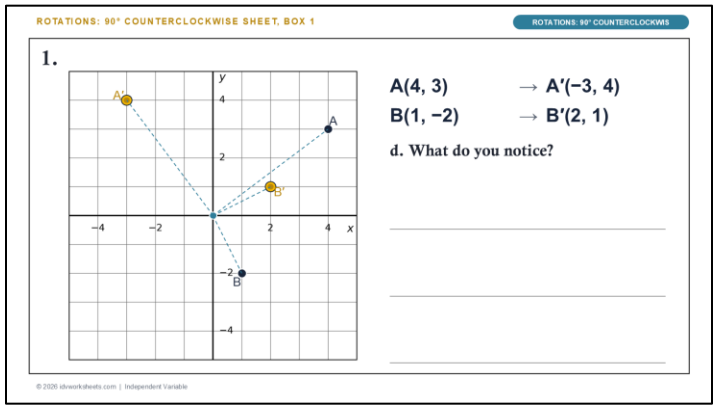


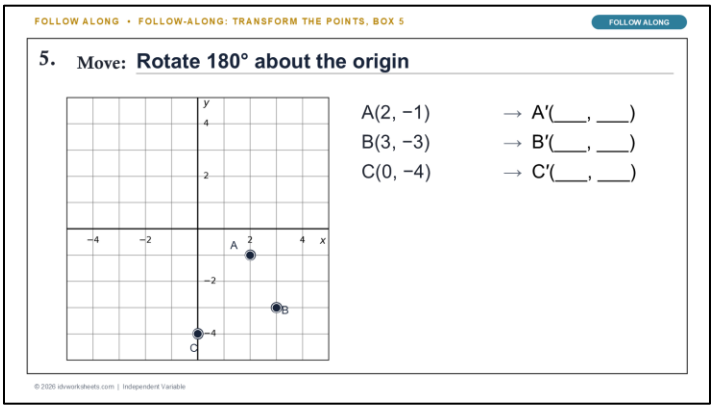












PREVIEW

68 slides (3 are hidden teacher slides), plus a 12-slide Game of All Games deck. Slides shown at reduced size.

Name_____ Per____

Translations

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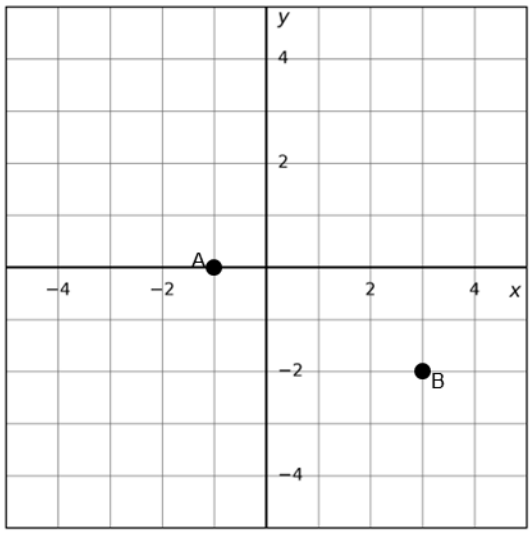
Directions: a. Label each point with its coordinates. b. Translate each point 2 units to the left, then 3 units up. c. Label each image with its coordinates and letter (A goes to A′).

1.

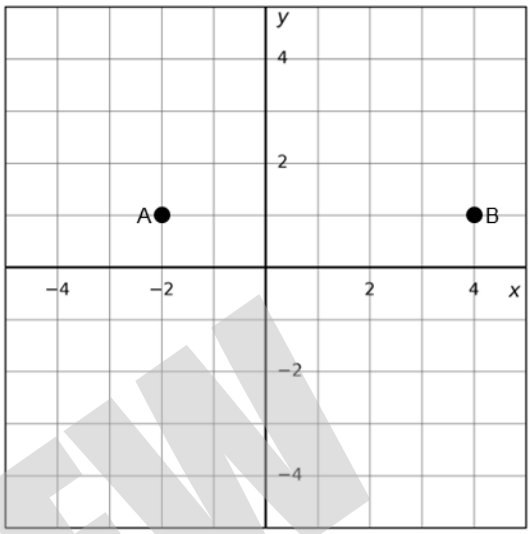


A(__, __) → A′(__, __)

B(__, __) → B′(__, __)

d. What do you notice?

2.

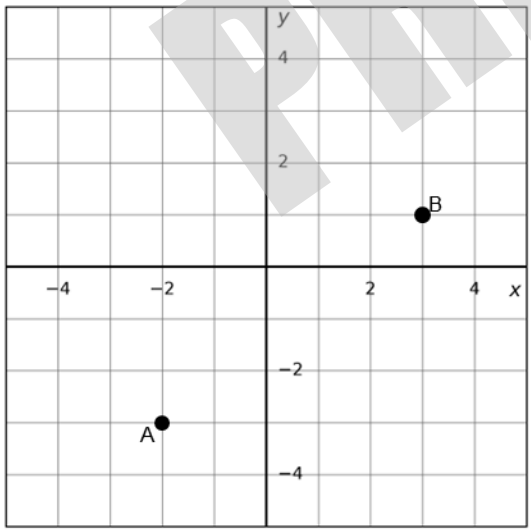


A(__, __) → A′(__, __)

B(__, __) → B′(__, __)

d. What do you notice?

3.



A(__, __) → A′(__, __)

B(__, __) → B′(__, __)

d. What do you notice?

4. Write a conjecture (if-then rule) about what happened in these problems.

PREVIEW

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Name_____ Per____

Rotations: 90° Clockwise

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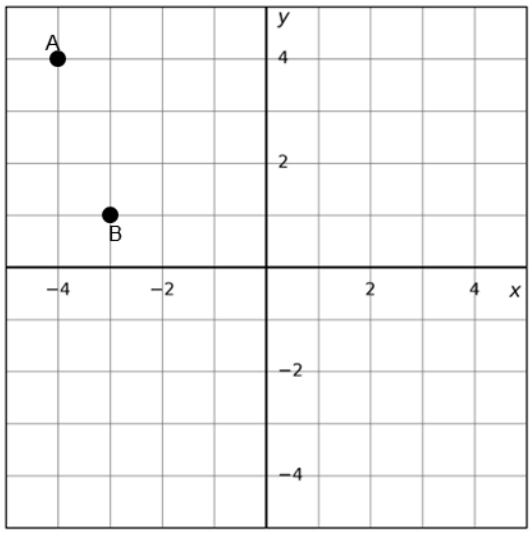
Directions: a. Label each point with its coordinates. b. Using (0, 0) as the center of rotation, rotate each point 90° clockwise. c. Label each image with its coordinates and letter (A goes to A′).

1.

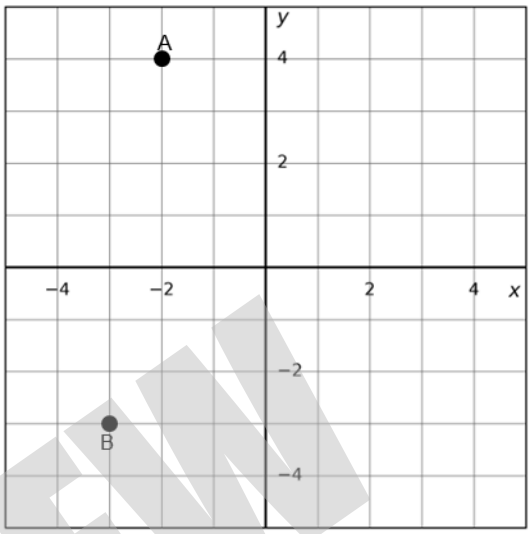


A(__, __) → A′(__, __)

B(__, __) → B′(__, __)

d. What do you notice?

2.

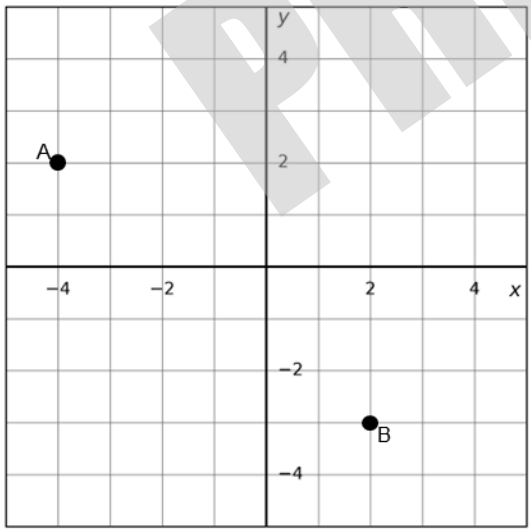


A(__, __) → A′(__, __)

B(__, __) → B′(__, __)

d. What do you notice?

3.



A(__, __) → A′(__, __)

B(__, __) → B′(__, __)

d. What do you notice?

4. Write a conjecture (if-then rule) about what happened in these problems.

PREVIEW

Name_____ Per____

Follow-Along: Transform the Points

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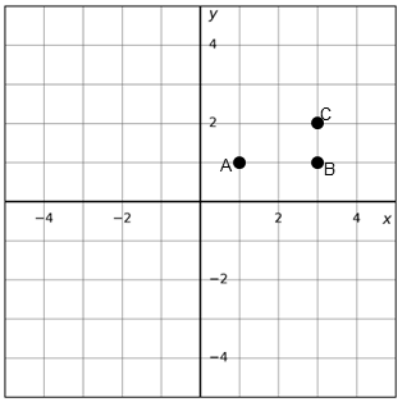
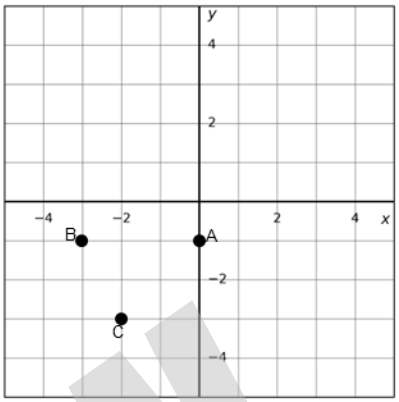
Directions: Write the move your teacher shows. Plot each image point and write its coordinates.

1. **Move:** _____



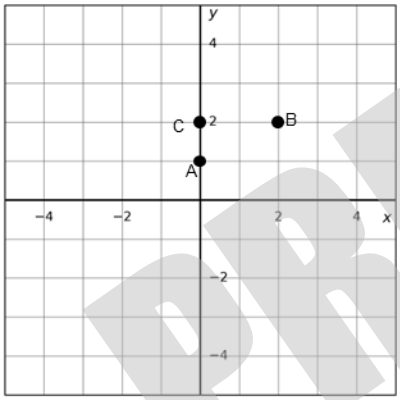
A′(___, ___) B′(___, ___) C′(___, ___)

2. **Move:** _____



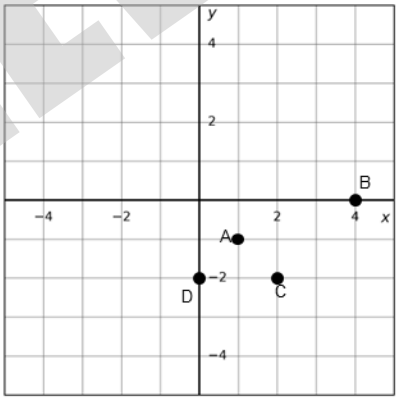
A′(___, ___) B′(___, ___) C′(___, ___)

3. **Move:** _____



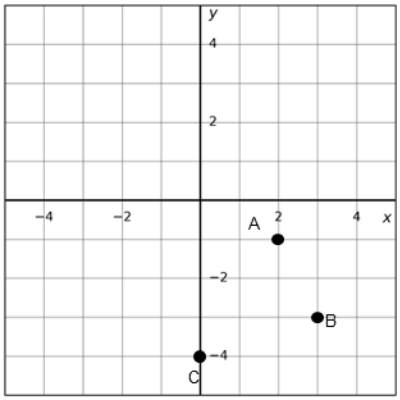
A′(___, ___) B′(___, ___) C′(___, ___)

4. **Move:** _____



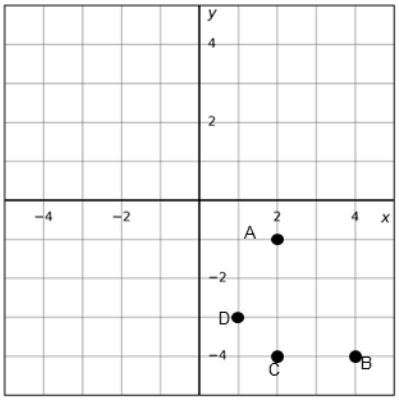
A′(___, ___) B′(___, ___) C′(___, ___)
D′(___, ___)

5. **Move:** _____



A′(___, ___) B′(___, ___) C′(___, ___)

6. **Move:** _____ CHALLENGE



A′(___, ___) B′(___, ___) C′(___, ___)
D′(___, ___)

PREVIEW

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