Ready, Set, Go!

**Ready**

Topic: Pythagorean Theorem

For each of the following right triangles determine the number units measure for the missing side.

1. \[ \sqrt{10} \]
2. \[ ? \]
3. \[ ? \]
4. \[ ? \]
5. \[ \sqrt{17} \]
6. \[ ? \]
Set
Topic: Transformations

Transform points as indicated in each exercise below.

7a. Rotate point A around the origin $90^\circ$ clockwise, label as $A'$

b. Reflect point A over x-axis, label as $A''$

c. Apply the rule $(x - 2, y - 5)$, to point A and label $A'''$

8a. Reflect point B over the line $y = x$, label as $B'$

b. Rotate point B $180^\circ$ about the origin, label as $B''$

c. Translate point B the point up 3 and right 7 units, label as $B'''$
Go

Topic: Graphing linear equations

Graph each equation on the coordinate grid provided. Extend the line as far as the grid will allow.

9. \( y = 2x - 3 \)

10. \( y = -2x - 3 \)

11. What similarities and differences are there between the equations in number 13 and 14?

12. \( y = \frac{2}{3}x + 1 \)

13. \( y = -\frac{3}{2}x + 1 \)

14. What similarities and differences are there between the equations in number 15 and 16?

15. \( y = x + 1 \)

16. \( y = x - 3 \)

17. What similarities and differences are there between the equations in number 15 and 16?