

READY, SET, GO!

Name

Period

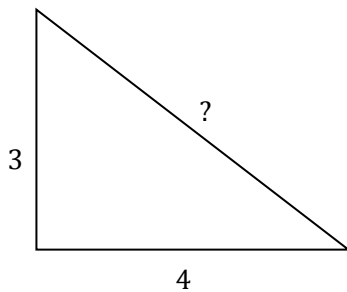
Date

**READY**

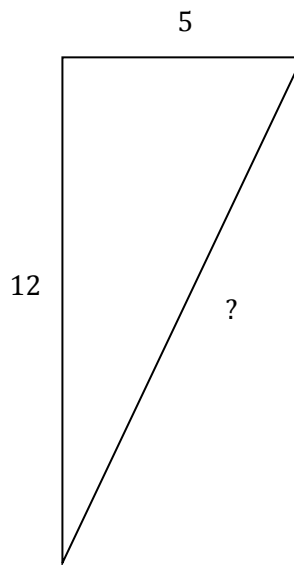
Topic: Pythagorean Theorem

**For each of the following right triangles determine the measure of the missing side. Leave the measures in exact form if irrational.**

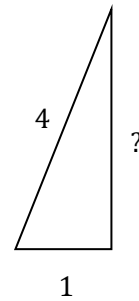
1.



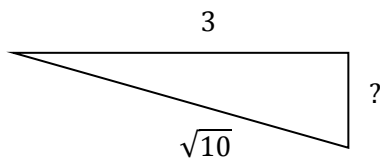
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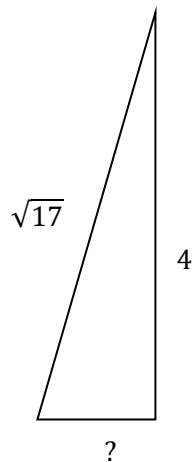
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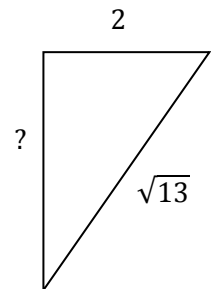
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5.



6.

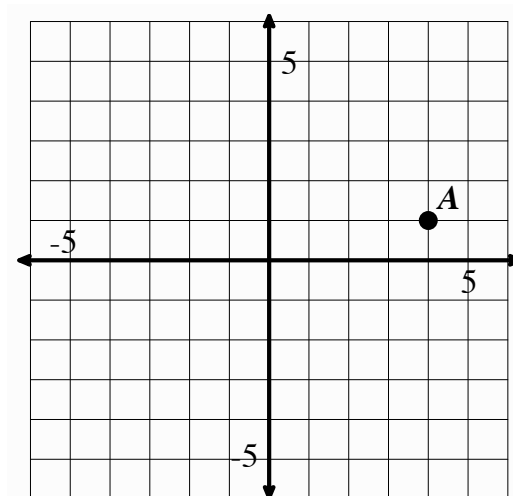


**SET**

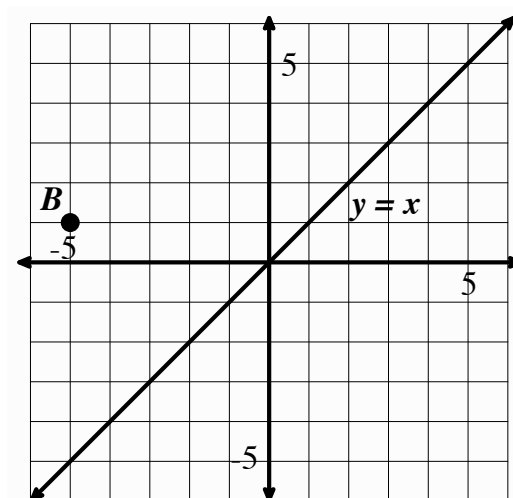
Topic: Transformations.

**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  $B'''$

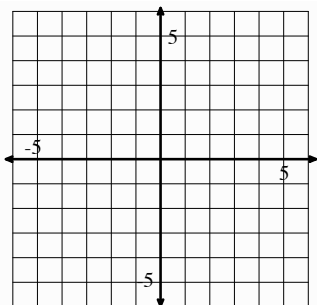


**GO**

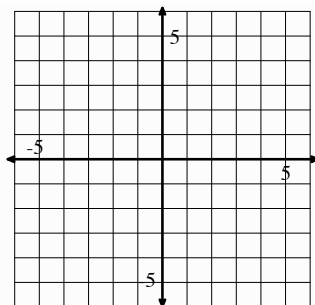
Topic: Graphing linear equations.

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

9.  $f(x) = 2x - 3$

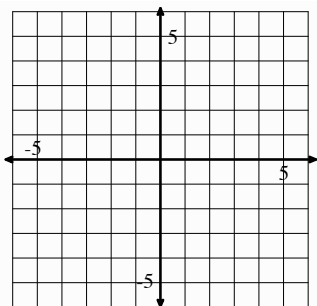


10.  $g(x) = -2x - 3$

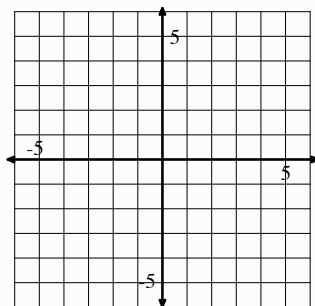


11. What similarities and differences are there between the functions  $f(x)$  and  $g(x)$ ?

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

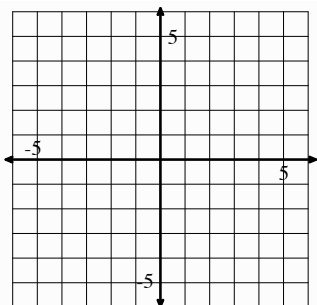


13.  $k(x) = -\frac{3}{2}x + 1$

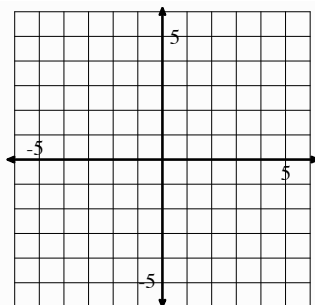


14. What similarities and differences are there between the equations  $h(x)$  and  $k(x)$ ?

15.  $a(x) = x + 1$



16.  $b(x) = x - 3$



17. What similarities and differences are there between the equations  $a(x)$  and  $b(x)$ ?