SECONDARY MATH I // MODULE 6

TRANSFORMATIONS AND SYMMETRY - 6.1

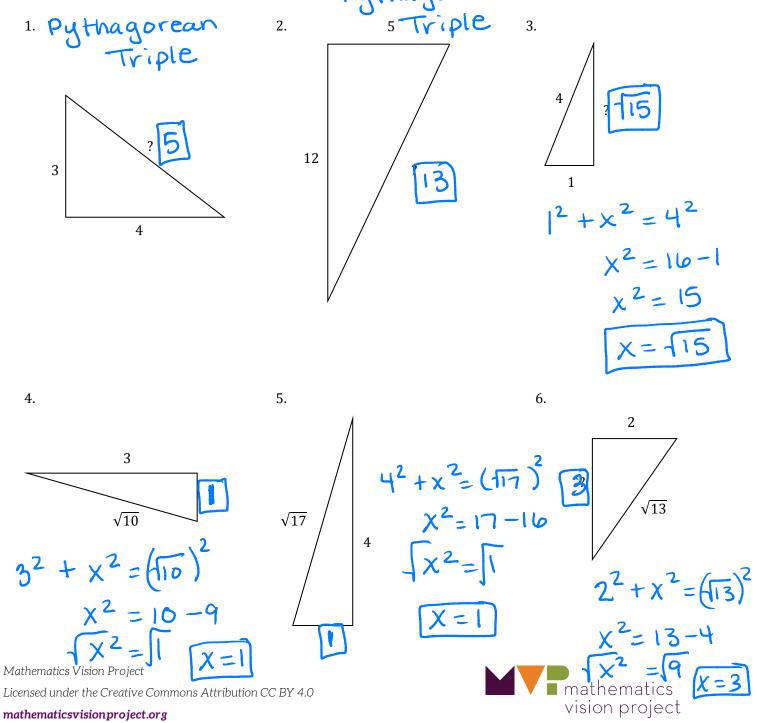
Lesson 1

READY, SET, GO!	Name Key	Period	Date
	U		

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.



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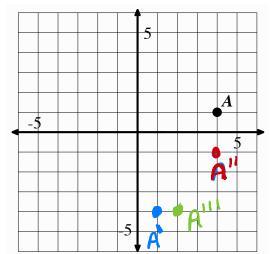
SET

Topic: Transformations.

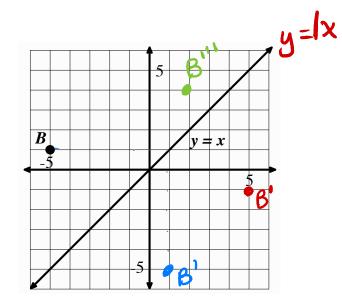
Transform points as indicated in each exercise below.

7a. Rotate point A around the origin 90° 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''' Shift left 2

down 5



8a. Reflect point B over the line y = x, label as B' b. Rotate point B 180° about the origin, label as B" c. Translate point B the point up 3 and right 7 units, label as B''' (x + 7, y + 3)



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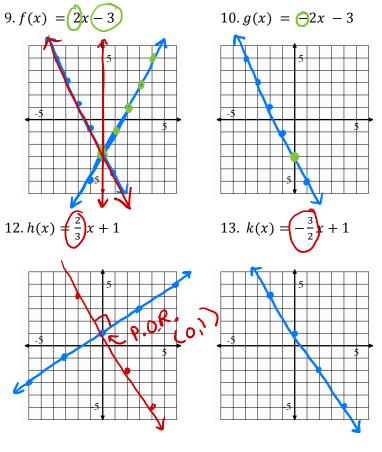
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Lesson 1

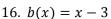
GO

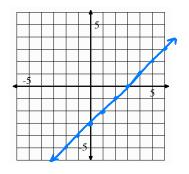
Topic: Graphing linear equations.

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



15. a(x) = x + 1





11. What similarities and differencesare there between the functions *f(x)*and *g(x)*?

- · same y-intercept
- · opposite slopes
- · lines are reflect over the y-axis

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

•same y-intercepts

 Slopes are opposite reciprocals (perpendicular) (Rotate 90°

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

- · same slopes
- . different y-intercepts

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· lines are translated

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