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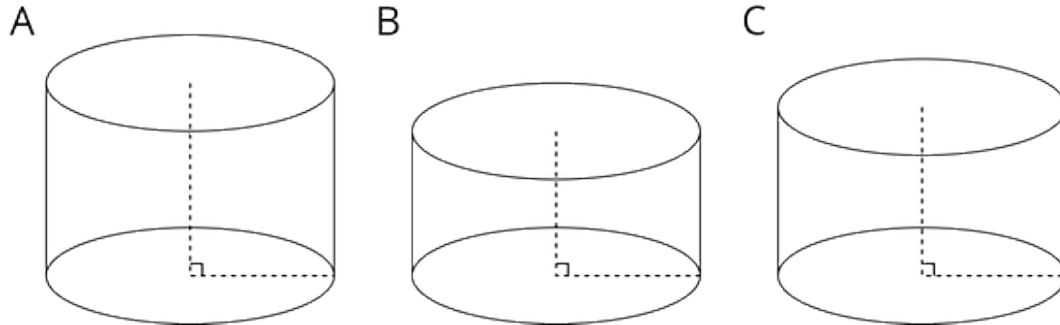
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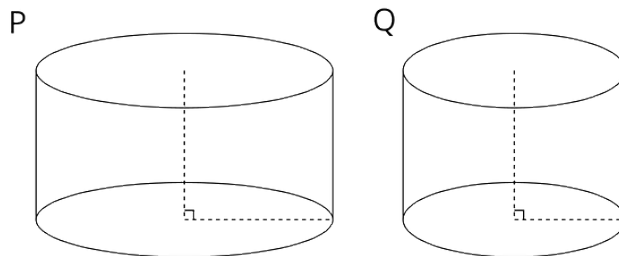
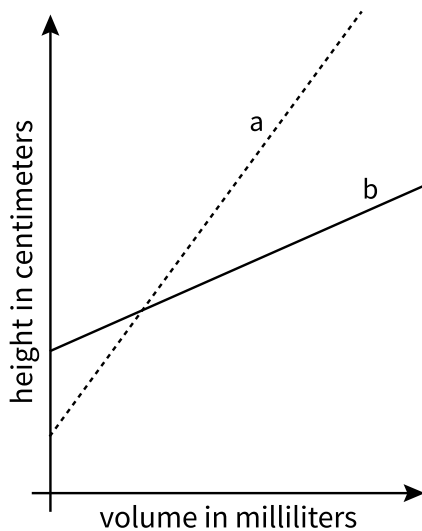
Unit 5, Lesson 11

Practice Problems

1. Cylinder A, B, and C have the same radius but different heights. Put the cylinders in order of their volume from least to greatest.



2. Two cylinders, *a* and *b*, each started with different amounts of water. The graph shows how the height of the water changed as the volume of water increased in each cylinder. Match the graphs of *a* and *b* to Cylinders P and Q. Explain your reasoning.

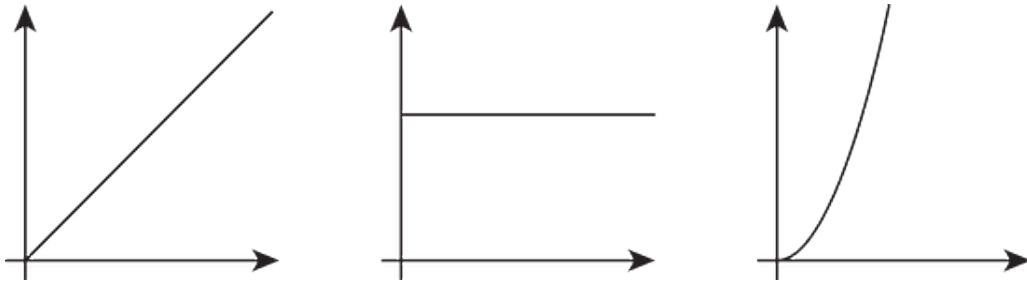


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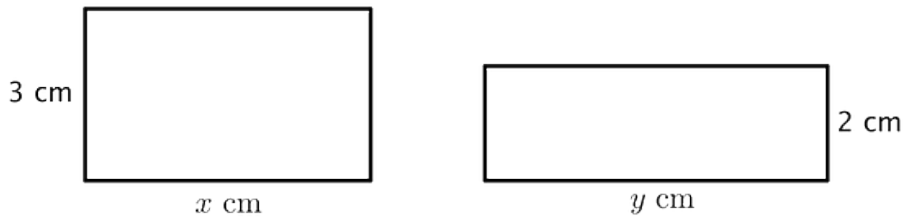
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3. Which of the following graphs could represent the volume of water in a cylinder as a function of its height? Explain your reasoning.



4. Together, the areas of the rectangles sum to 30 square centimeters.



a. Write an equation showing the relationship between x and y .

b. Fill in the table with the missing values.

x	3		8		12
y		5		10	