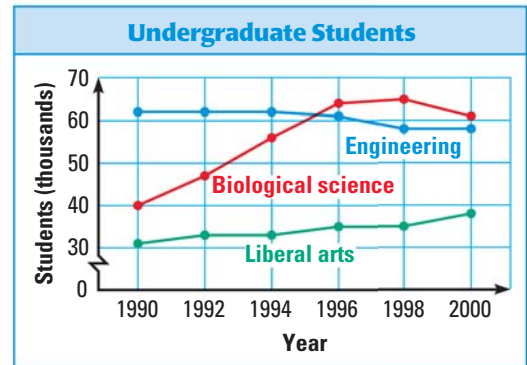
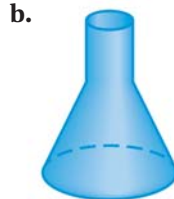
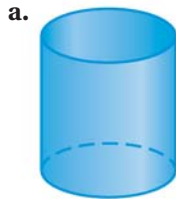


40. **TAKS REASONING** The graph shows the number (in thousands) of undergraduate students who majored in biological science, engineering, or liberal arts in the United States from 1990 to 2000.
- During which two-year period did the number of engineering students decrease the most? Estimate the rate of change for this time period.
  - During which two-year period did the number of liberal arts students increase the most? Estimate the rate of change for this time period.
  - How did the total number of students majoring in biological science, engineering, and liberal arts change in the 10 year period? *Explain* your thinking.



41. **CHALLENGE** Imagine the containers below being filled with water at a constant rate. Sketch a graph that shows the water level for each container during the time it takes to fill the container with water.



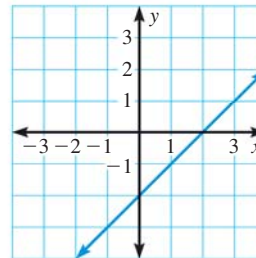
## MIXED REVIEW FOR TAKS

**TAKS PRACTICE** at classzone.com

### REVIEW

Lesson 4.3;  
TAKS Workbook

42. **TAKS PRACTICE** What are the  $x$ - and  $y$ -intercepts of the function graphed at the right? **TAKS Obj. 3**



- $(0, 2)$  and  $(0, -2)$
- $(2, 0)$  and  $(-2, 0)$
- $(0, 2)$  and  $(-2, 0)$
- $(2, 0)$  and  $(0, -2)$

### REVIEW

TAKS Preparation  
p. 350;  
TAKS Workbook

43. **TAKS PRACTICE** Which is always a correct conclusion about the quantities in the function  $y = -x + 3$ ? **TAKS Obj. 1**

- The variable  $x$  is always 3 more than  $y$ .
- When the value of  $y$  is negative, the value of  $x$  is also negative.
- When the value of  $x$  is negative, the value of  $y$  is positive.
- As the value of  $x$  increases, the value of  $y$  also increases.