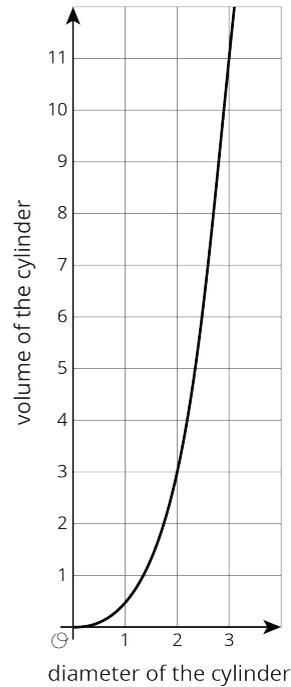




3. The graph represents the volume of a cylinder with a height equal to its radius.

- When the diameter is 2 cm, what is the radius of the cylinder?
- Express the volume of a cube of side length  $s$  as an equation.
- Make a table for volume of the cube at  $s = 0$  cm,  $s = 1$  cm,  $s = 2$  cm, and  $s = 3$  cm.
- Which volume is greater: the volume of the cube when  $s = 3$  cm, or the volume of the cylinder when its diameter is 3 cm?



(From Unit 5, Lesson 7.)

4. Select **all** the points that are on a line with slope 2 that also contains the point (2, -1).

- (3, 1)
- (1, 1)
- (1, -3)
- (4, 0)
- (6, 7)

(From Unit 3, Lesson 10.)

5. Several glass aquariums of various sizes are for sale at a pet shop. They are all shaped like rectangular prisms. A 15-gallon tank is 24 inches long, 12 inches wide, and 12 inches tall. Match the dimensions of the other tanks with the volume of water they can each hold.

- |                                                               |               |
|---------------------------------------------------------------|---------------|
| A. Tank 1: 36 inches long, 18 inches wide, and 12 inches tall | 1. 5 gallons  |
| B. Tank 2: 16 inches long, 8 inches wide, and 10 inches tall  | 2. 10 gallons |
| C. Tank 3: 30 inches long, 12 inches wide, and 12 inches tall | 3. 20 gallons |
| D. Tank 4: 20 inches long, 10 inches wide, and 12 inches tall | 4. 30 gallons |

6. Solve:  $\begin{cases} y = -2x - 20 \\ y = x + 4 \end{cases}$

(From Unit 4, Lesson 14.)