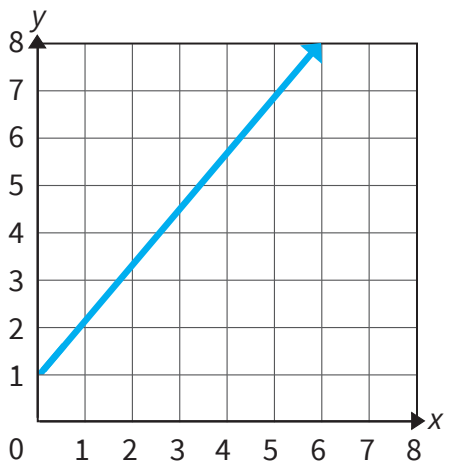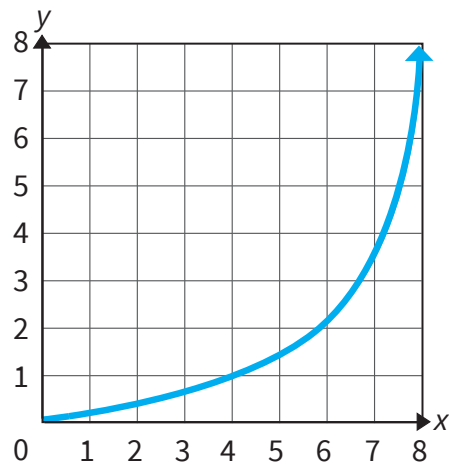# Identify Proportional Relationships From Graphs
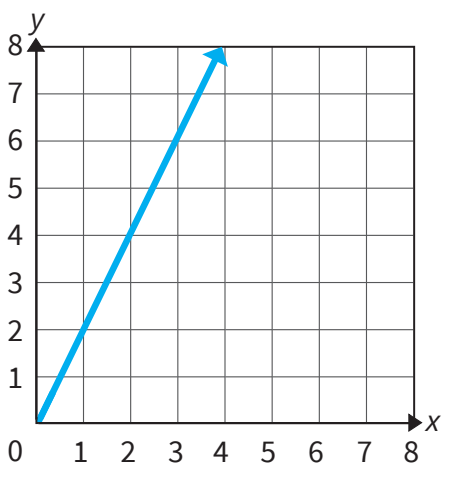
**Determine whether each graph represents a proportional relationship, and explain how you know.** Explanations may vary.
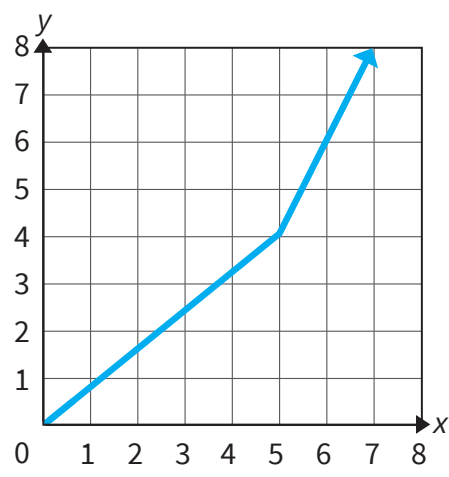
**Does the graph show a proportional relationship? Explain how you know.** No , this graph does not show a proportional relationship. The line does not pass through the origin.

**Does the graph show a proportional relationship? Explain how you know.** No, this graph does not show a proportional relationship. The line is not straight.

**Does the graph show a proportional relationship? Explain how you know.** Yes, this graph shows a proportional relationship. The line is straight and passes through the origin.

**Does the graph show a proportional relationship? Explain how you know.** No, this graph does not show a proportional relationship. The line is not straight.

# Identify Proportional Relationships From Graphs

**Graph the points from the table on the coordinate plane. Use the graph to determine whether the relationship is proportional, and explain how you know.** Explanations may vary.

| x | y |
|---|---|
| 3 | 2 |
| 5 | 4 |
| 7 | 6 |
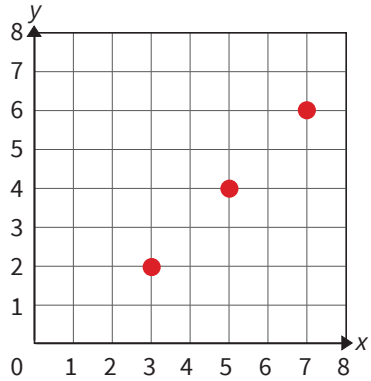
Is the relationship proportional? Explain how you know.  No, this relationship is not proportional. The line connecting the points would not pass through the origin.

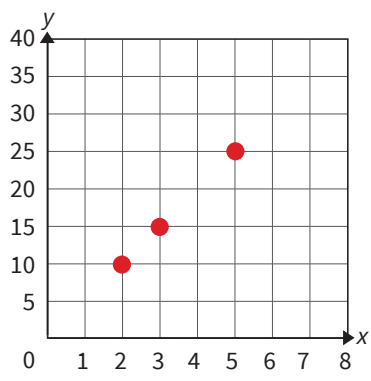| x | y |
|---|---|
| 1 | 4 |
| 5 | 10 |
| 8 | 12 |
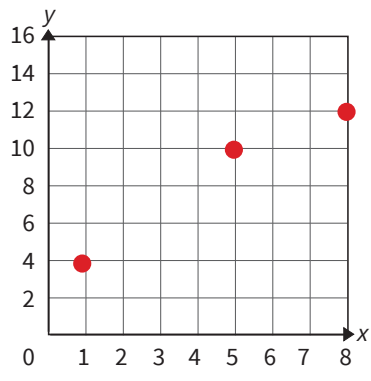
Is the relationship proportional? Explain how you know.  No, this relationship is not proportional. The line connecting the points would not be straight.

| x | y |
|---|---|
| 2 | 10 |
| 3 | 15 |
| 5 | 25 |

Is the relationship proportional? Explain how you know.  Yes, this relationship is proportional. The line connecting the points would be straight and pass through the origin.