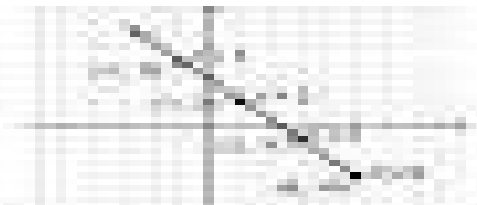


## Parametric Functions

Parametric functions are a set of two functions in one variable whose graphs, for example, trajectories, are functions of values on the graph, and another is used for  $x$  values. Both functions are defined in terms of a third variable,  $t$  (also called the "parameter").

$$\begin{aligned} x &= 3 - 2t \\ y &= 2 + 3t \end{aligned}$$

| $t$ | $x$ | $y$ |
|-----|-----|-----|
| -1  | 5   | -1  |
| 0   | 3   | 2   |
| 1   | 1   | 5   |
| 2   | -1  | 8   |

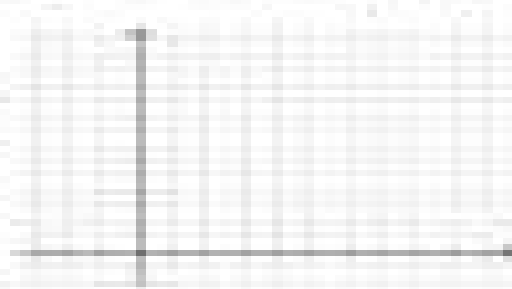


Note that, as graphs produced by parametric functions, the  $t$  values serve as coordinates on each point. This also gives that graph a specific direction (indicated by the arrow).

For each set of parametric functions, complete the table, sketch the graph, and answer the questions that follow.

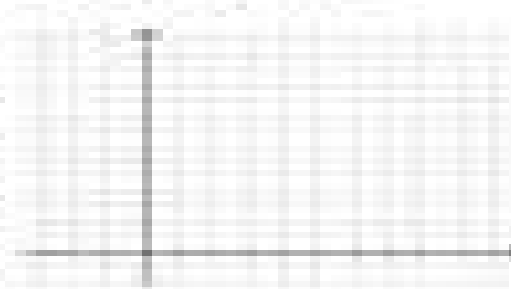
1a.  $\begin{aligned} x &= 3 - 2t \\ y &= 2 + 3t \end{aligned}$

| $t$ | $x$ | $y$ |
|-----|-----|-----|
| -1  | 5   | -1  |
| 0   | 3   | 2   |
| 1   | 1   | 5   |
| 2   | -1  | 8   |
| 3   | -3  | 11  |



1b.  $\begin{aligned} x &= 3 - 2t \\ y &= 2 + 3t \end{aligned}$

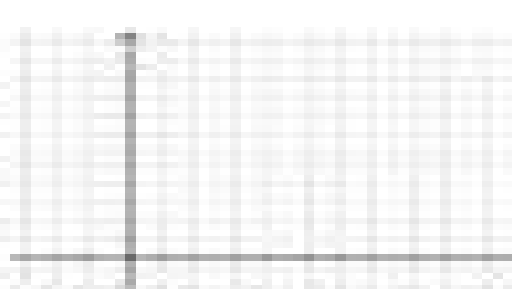
| $t$ | $x$ | $y$ |
|-----|-----|-----|
| -1  | 5   | -1  |
| 0   | 3   | 2   |
| 1   | 1   | 5   |
| 2   | -1  | 8   |
| 3   | -3  | 11  |



2a. What does the trajectory graphs A and B (above) have in common? How are they different?

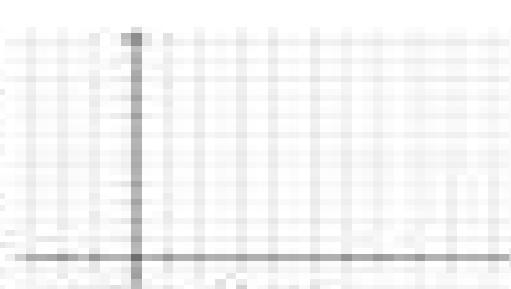
2b.  $\begin{aligned} x &= 3 - 2t \\ y &= 2 + 3t \end{aligned}$

| $t$ | $x$ | $y$ |
|-----|-----|-----|
| -1  | 5   | -1  |
| 0   | 3   | 2   |
| 1   | 1   | 5   |
| 2   | -1  | 8   |
| 3   | -3  | 11  |



2c.  $\begin{aligned} x &= 3 - 2t \\ y &= 2 + 3t \end{aligned}$

| $t$ | $x$ | $y$ |
|-----|-----|-----|
| -1  | 5   | -1  |
| 0   | 3   | 2   |
| 1   | 1   | 5   |
| 2   | -1  | 8   |
| 3   | -3  | 11  |



2c. What does the trajectory C and D (above) have in common? How are they different?

# Precalculus Hs Mathematics Unit Lesson Parametric Functions

**Paul A. Foerster**



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