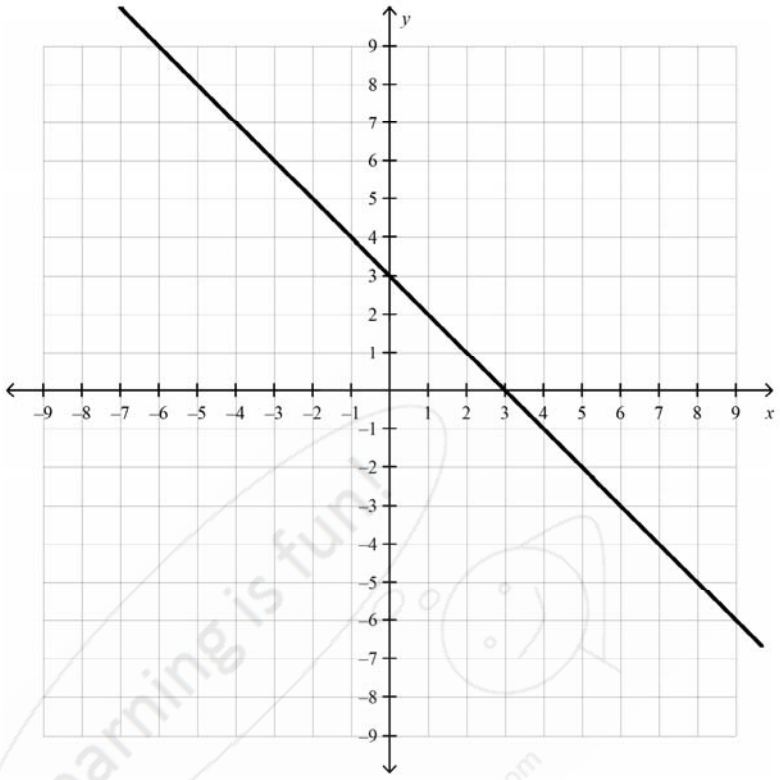
Name: _____ Class: _____ Date: _____ ID: A

Parametric Equations

___ 1. Which of the following parametric equations match the graph?



a. $x = -4t - 2$ and $y = 4t + 5$
b. $x = -3t - 2$ and $y = 5t + 5$
c. $x = -4t - 1$ and $y = 4t + 6$
d. $x = -3t - 1$ and $y = 5t + 6$

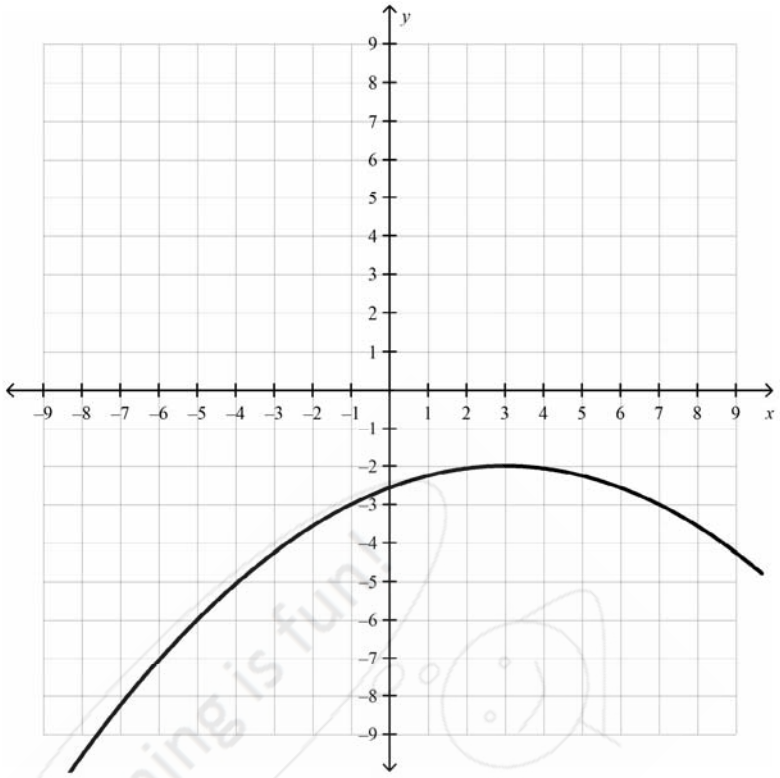
2. For the following parametric equations, what is the value of t that will plot the location (27, 178)?

$x = -3t + 9$ and $y = 5t^2 - 2$

___ 3. When $t = -3$, which of the following will plot the location (14, 38)?

a. $x = -6t - 6$ and $y = 3t^2 + 1$
b. $x = -6t - 7$ and $y = 3t^2 + 2$
c. $x = -7t - 6$ and $y = 4t^2 + 1$
d. $x = -7t - 7$ and $y = 4t^2 + 2$

____ 4. Which of the following parametric equations match the graph?



a. $x = -4t + 4$ and $y = -t^2 - 1$

b. $x = -5t + 3$ and $y = t^2 - 2$

c. $x = -5t + 4$ and $y = t^2 - 1$

d. $x = -4t + 3$ and $y = -t^2 - 2$

____ 5. For the following parametric equations, which plot location is incorrect?

$x = -5t - 6$ and $y = 4t^2 + 5$

a. $t = -4$ for (13, 69)

b. $t = 1$ for (–11, 9)

c. $t = 2$ for (–16, 21)

d. $t = -2$ for (4, 21)

Parametric Equations
Answer Section

1. ANS: A
2. ANS: -6
3. ANS: D
4. ANS: D
5. ANS: A