Parametric Equations · 1

Eliminate the parameter: $x = t + 5$, $y = -6t - 2$. Write the answer in the form $y = mx + b$.

Parametric Equations · 2

$x = -5t + 7$, $y = t^2 + 7t + 2$. Find the point on the curve when $t = 4$.

Parametric Equations · 3

A stone is thrown. After t seconds its position in meters is $x = 26t$, $y = 40t - 5t^2$. Find its position (x, y) when $t = 6$.

Parametric Equations · 4

Eliminate the parameter: $x = t + 6$, $y = t^2 + 8$. Write the answer in the form $y = a(x - h)^2 + k$.

Parametric Equations · 5

$x = t + 6$, $y = -6t - 6$. For which value of t is the curve at the point $(12, -42)$?

Parametric Equations · 6

A football is punted. After t seconds its position in meters is $x = 26t$, $y = 10t - 5t^2$. After how many seconds does it hit the ground ($y = 0$)?

Parametric Equations · 7

Eliminate the parameter: $x = t + 5$, $y = -2t + 4$. Write the answer in the form $y = mx + b$.

Parametric Equations · 8

$x = -3t - 7$, $y = -6t$. Find the point on the curve when $t = -2$.

Parametric Equations · 2

ANSWER

$(-13, 46)$

Parametric Equations · 1

ANSWER

$y = -6x + 28$

Parametric Equations · 4

ANSWER

$y = (x - 6)^2 + 8$

Parametric Equations · 3

ANSWER

$(156, 60)$

Parametric Equations · 6

ANSWER

2

Parametric Equations · 5

ANSWER

$t = 6$

Parametric Equations · 8

ANSWER

$(-1, 12)$

Parametric Equations · 7

ANSWER

$y = -2x + 14$

Parametric Equations · 9

Eliminate the parameter: $x = t - 2$, $y = t^2 + 8$. Write the answer in the form $y = a(x - h)^2 + k$.

Parametric Equations · 10

A football is punted. After t seconds its position in meters is $x = 11t$, $y = 30t - 5t^2$. After how many seconds does it hit the ground ($y = 0$)?

Parametric Equations · 11

Eliminate the parameter: $x = -t - 4$, $y = -t + 1$. Write the answer in the form $y = mx + b$.

Parametric Equations · 12

A ball is kicked. After t seconds its position in meters is $x = 27t$, $y = 20t - 5t^2$. What is its maximum height, in meters?

Parametric Equations · 13

$x = 4t - 2$, $y = t^2 - 3t - 6$. Find the point on the curve when $t = 0$.

Parametric Equations · 14

A golf ball is hit. After t seconds its position in meters is $x = 19t$, $y = 30t - 5t^2$. How many meters from its starting point does it land?

Parametric Equations · 15

Eliminate the parameter: $x = t - 3$, $y = t^2 - 3$. Write the answer in the form $y = a(x - h)^2 + k$.

Parametric Equations · 16

A ball is kicked. After t seconds its position in meters is $x = 7t$, $y = 10t - 5t^2$. After how many seconds does it hit the ground ($y = 0$)?

Parametric Equations · 10

ANSWER

6

Parametric Equations · 9

ANSWER

$y = (x + 2)^2 + 8$

Parametric Equations · 12

ANSWER

20

Parametric Equations · 11

ANSWER

$y = x + 5$

Parametric Equations · 14

ANSWER

114

Parametric Equations · 13

ANSWER

(-2, -6)

Parametric Equations · 16

ANSWER

2

Parametric Equations · 15

ANSWER

$y = (x + 3)^2 - 3$

Parametric Equations · 17

Eliminate the parameter: $x = t - 5$, $y = t^2 + 8$. Write the answer in the form $y = a(x - h)^2 + k$.

Parametric Equations · 18

A golf ball is hit. After t seconds its position in meters is $x = 24t$, $y = 50t - 5t^2$. After how many seconds does it hit the ground ($y = 0$)?

Parametric Equations · 19

Eliminate the parameter: $x = -t + 4$, $y = 5t - 4$. Write the answer in the form $y = mx + b$.

Parametric Equations · 20

A stone is thrown. After t seconds its position in meters is $x = 29t$, $y = 10t - 5t^2$. What is its maximum height, in meters?

Parametric Equations · 21

$x = 2t - 3$, $y = t^2 + 2t + 7$. Find the point on the curve when $t = 0$.

Parametric Equations · 22

A stone is thrown. After t seconds its position in meters is $x = 9t$, $y = 40t - 5t^2$. How many meters from its starting point does it land?

Parametric Equations · 23

Eliminate the parameter: $x = t - 3$, $y = t^2 + 8$. Write the answer in the form $y = a(x - h)^2 + k$.

Parametric Equations · 24

A rocket is launched. After t seconds its position in meters is $x = 23t$, $y = 10t - 5t^2$. After how many seconds does it hit the ground ($y = 0$)?

Parametric Equations · 18

ANSWER

10

Parametric Equations · 17

ANSWER

$y = (x + 5)^2 + 8$

Parametric Equations · 20

ANSWER

5

Parametric Equations · 19

ANSWER

$y = -5x + 16$

Parametric Equations · 22

ANSWER

72

Parametric Equations · 21

ANSWER

(-3, 7)

Parametric Equations · 24

ANSWER

2

Parametric Equations · 23

ANSWER

$y = (x + 3)^2 + 8$