Task card 1 Parametric Equations

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

Task card 2 Parametric Equations

$x = t + 3$, $y = -3t - 1$. For which value of t is the curve at the point $(9, -19)$?

Task card 3 Parametric Equations

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

Task card 4 Parametric Equations

$x = -t + 1$, $y = t + 3$. Find the point on the curve when $t = 3$.

Task card 5 Parametric Equations

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

Task card 6 Parametric Equations

$x = 2t$, $y = 3t + 4$. For which value of t is the curve at the point $(2, 7)$?

Task card 7 Parametric Equations

Eliminate the parameter: $x = t - 2$, $y = 3t + 3$. Write the answer in the form $y = mx + b$.

Task card 8 Parametric Equations

$x = t - 4$, $y = t - 1$. Find the point on the curve when $t = 0$.

Task card 9 Parametric Equations

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

Task card 10 Parametric Equations

$x = -2t + 3$, $y = 4t + 5$. For which value of t is the curve at the point $(-9, 29)$?

Task card 11 Parametric Equations

Eliminate the parameter: $x = t - 4$, $y = t + 6$. Write the answer in the form $y = mx + b$.

Task card 12 Parametric Equations

$x = -t + 4$, $y = 3t - 1$. Find the point on the curve when $t = 1$.

Task card 13 Parametric Equations

$x = -2t + 1$, $y = 4t - 2$. Find the point on the curve when $t = 5$.

Task card 14 Parametric Equations

$x = 3t - 3$, $y = 3t + 2$. For which value of t is the curve at the point (12, 17)?

Task card 15 Parametric Equations

Eliminate the parameter: $x = t + 4$, $y = 3t - 1$. Write the answer in the form $y = mx + b$.

Task card 16 Parametric Equations

$x = -3t + 5$, $y = 2t + 1$. Find the point on the curve when $t = 2$.

Task card 17 Parametric Equations

Eliminate the parameter: $x = 3t - 2$, $y = -6t - 2$. Write the answer in the form $y = mx + b$.

Task card 18 Parametric Equations

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

Task card 19 Parametric Equations

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

Task card 20 Parametric Equations

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

Task card 21 Parametric Equations

$x = 4t$, $y = -2t - 1$. For which value of t is the curve at the point (-12, 5)?

Task card 22 Parametric Equations

A football is punted. After t seconds its position in meters is $x = 7t$, $y = 20t - 5t^2$. After how many seconds does it hit the ground ($y = 0$)?

Task card 23 Parametric Equations

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

Task card 24 Parametric Equations

$x = t - 5$, $y = t^2 - 2t + 4$. Find the point on the curve when $t = 0$.

Parametric Equations Task Cards

Recording sheet · Grade 12 · Write points as (x, y) and equations in the form asked for, typing ^ for powers, like y = (x - 2)^2 + 1.

Scan to check your answers

Name: _____ Date: _____

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Parametric Equations Task Cards: Answer Key

Grade 12 · Easy

The answers online

1. (-10, 4)	**2.** t = 6	**3.** y = -x
4. (-2, 6)	**5.** (9, 3)	**6.** t = 1
7. y = 3x + 9	**8.** (-4, -1)	**9.** (-3, 10)
10. t = 6	**11.** y = x + 10	**12.** (3, 2)
13. (-9, 18)	**14.** t = 5	**15.** y = 3x - 13
16. (-1, 5)	**17.** y = -2x - 6	**18.** (0, 4)
19. (130, 75)	**20.** $y = (x - 3)^2 + 2$	**21.** t = -3
22. 4	**23.** y = 4x + 17	**24.** (-5, 4)