

Match Mates Piecewise Functions Activity Templates

Victoria Landers

E2
f(x)=
$$\begin{cases} 70, & 0 \le x \le 7\\ -10x + 140, & 7 \le x \le 8\\ 60, & 8 \le x \le 10 \end{cases}$$

E9

$$f(x) = \begin{cases}
10x, & 0 \le x \le 1 \\
10, & 1 \le x \le 2 \\
-10x + 30, & 2 \le x \le 3 \\
0, & 3 \le x \le 4 \\
10x - 40, & 4 \le x \le 5 \\
-10x + 60, & 5 \le x \le 6 \\
0, & 7 \le x \le 10
\end{cases}$$

E8
f(x)=

$$\begin{cases}
15x, & 0 \le x \le 2 \\
30, & 2 \le x \le 4 \\
15x - 30, & 4 \le x \le 6 \\
-\frac{15}{2}x + 105, & 6 \le x \le 10
\end{cases}$$

E1

$$f(x) = \begin{cases}
0, & 0 \le x \le 2 \\
\frac{45}{2}x - 45, & 2 \le x \le 6 \\
-\frac{5}{2}x + 105, & 6 \le x \le 10
\end{cases}$$

D8

After 5 minutes of climbing at a constant rate, Bobby's plane malfunctioned and crashed to the ground.

D5

After two minutes, Susan's plane took off at a rate of 10 feet per minute.

D6

After letting his plane drop 40 feet in six minutes, tom maintained the plane at a steady height for the rest of the flight.

D7

After rising and falling for 6 minutes, Lynn's plane reached the highest altitude and maintained it the next few minutes.

D10

After elevating 30 feet in 2 minutes, Steve maintained his plane the same height for two more minutes before elevating it at a slower rate before he brought his plane in for a landing.

D3

Mary's plane maintained a constant altitude for 4 minutes, it then rose thirty more feet before stalling the engine, but she was able to glide it safely to the ground.

D2

After Juan kept his plane at a steady altitude for 7 minutes, he decided to bring it down to 60 feet for the rest of the trip.

D9

Albert's plane got airborne for three minutes before it came down. After he fixed the rudder, the plane could only stay in the air for a few more minutes before Albert decided to quit.

D4

After elevating for 2 minutes, Jerry maintained his plane the same height for two more minutes before elevating it at the same rate as when he started before he brought his plane in for a landing.

	T1							
	х	1	2	3	4	5	6	10
	у	10	10	0	0	10	0	0
Į	,			•	•		U	0

Bob's plane taxied on the ground for 2 minutes before it finally rose to a height of 90 feet but he couldn't maintain the altitude.

T2	2							
								
Х		0	1	2	4	6	7	10
У		0	15	30	30	50	60	20

Т3							
x	0	1	2	4	6	8	10
у	0	30	60	30	90	90	90
у	U	00	00	00	50	50	00

T4							
х	0	1	2	3	4	5	6
у	0	16	32	48	64	80	0
-	-		-	-	-	-	

T5							
x	0	1	2	4	6	8	10
у	20	20	20	20	35	50	0
у	20	20	20	20	35	50	0

0	1	2	4	6	8	10
0	15	30	30	60	45	30
<u> </u>	<u> </u>					
	0	0 1 0 15	0 1 2 0 15 30	0 1 2 4 0 15 30 30	0 1 2 4 6 0 15 30 30 60	0 1 2 4 6 8 0 15 30 30 60 45

	Τ7							
[x	0	1	2	4	6	8	10
	у	0	0	0	20	40	60	80
L		1						

Т9							
x	0	1	2	4	6	8	10
у	0	0	0	45	90	85	80
,	•	•	•				

		_	_			
0	4	5	7	8	9	10
70	70	70	70	60	60	60
<u> </u>					_	
	0 70	0 4 70 70	0 4 5 70 70 70	0 4 5 7 70 70 70 70	0 4 5 7 8 70 70 70 70 60	0 4 5 7 8 9 70 70 70 70 60 60













G7							
	10						
		1					
		7					

G8	4	7					
	10				/		
		1					
		7					









Graph	Description	Table	Equation
G1			
G2			
G3			
G4			
G5			
G6			
G7			
G8			
G9			
G10			

Match Mates Piecewise Functions Activity Key

Graph	Description	Table	Equation
G1	D8	Τ4	E4
G2	D5	T7	E5
G3	D6	Т8	E6
G4	D10	T2	E3
G5	D7	Т3	E10
G6	D3	Т5	E7
G7	D2	T10	E2
G8	D9	T1	E9
G9	D4	Т6	E8
G10	D1	Т9	E1