

Show how to find rules to approximate the relationships defined by the tables below.

$\Delta x$	x	y	$\Delta y$	Ratio
	0	0		
	1	2		
	2	3.25		
	3	4.32		
	4	5.28		
	5	6.17		
	6	7.01		

$\Delta x$	x	y	$\Delta y$	Ratio
	0	500.00		
	1	545.00		
	2	594.05		
	3	647.51		
	4	705.79		
	5	769.31		
	6	838.55		

$\Delta x$	x	y	$\Delta y$	Ratio
	0	4.0		
	1	6.5		
	2	9.0		
	3	11.5		
	4	14.0		
	5	16.5		
	6	19.0		

$\Delta x$	x	y	$\Delta y$	Ratio
	0	300.0		
	1	189.0		
	2	119.1		
	3	75.0		
	4	47.3		
	5	29.8		
	6	18.8		

Match Each Function to the Appropriate Graph

1.  $y = 4000(1.09)^x$

6.  $y = 40x^{1.8}$

2.  $y = 4000e^{0.09x}$

7.  $y = 4000(0.91)^x$

3.  $y = 40x^{0.8}$

8.  $y = 4000e^{-0.09x}$

4.  $y = -2x + 40$

9.  $y = 2x + 40$

5.  $y = \frac{3}{x}$

10.  $y = \frac{3}{x-5}$

