This Review is designed to be a gallery walk or station exercise

Review: Domain and Range, Increase and Decrease

Use this page for each of the following graphs (Pages 2-6)

Select the number of y-intercepts: 1

Select the number of x-intercepts: 0

Does the function have a minimum x-value? ○ Yes ● No

Does the function have a maximum x-value? ● Yes ● No

Select a statement to describe the domain: R

Does the function have a minimum y-value? ● Yes ○ No

Does the function have a maximum y-value? ○ Yes ● No

Select a statement to describe the range: $y \geq 3$

A

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Review: Domain and Range, Increase and Decrease

Use this page for each of the following graphs (Pages 2-6)

Select the number of y-intercepts: 0

Select the number of x-intercepts: 1

Does the function have a minimum x-value? ○ Yes ● No

Does the function have a maximum x-value? ● Yes ○ No

Select a statement to describe the domain: $x \leq -9$

Does the function have a minimum y-value? ○ Yes ● No

Does the function have a maximum y-value? ● Yes ○ No

Select a statement to describe the range: $y \geq -10$

B

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Review: Domain and Range, Increase and Decrease

Use this page for each of the following graphs (Pages 2-6)

Select the number of y-intercepts: 1

Select the number of x-intercepts: 1

Does the function have a minimum x-value? ○ Yes ● No

Does the function have a maximum x-value? ○ Yes ● No

Select a statement to describe the domain: R

Does the function have a minimum y-value? ○ Yes ● No

Does the function have a maximum y-value? ○ Yes ● No

Select a statement to describe the range: R

C

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Review: Domain and Range, Increase and Decrease

Use this page for each of the following graphs (Pages 2-6)

Select the number of y-intercepts: 1

Select the number of x-intercepts: 0

Does the function have a minimum x-value? ○ Yes ● No

Does the function have a maximum x-value? ● Yes ○ No

Select a statement to describe the domain: $x \leq 16$

Does the function have a minimum y-value? ● Yes ○ No

Does the function have a maximum y-value? ○ Yes ● No

Select a statement to describe the range: $y \geq 7$

D

T. 1
1
No
R
R

U. decr.
Increasing
decr
Incr.
$+\infty$
$+\infty$

V. 1
3
yes
R
$y \leq 3400$
∞
$-\infty$

W. 1/2
3

X 2
7/8

P.

No	Yes	No
Yes	No	Yes
No	No	yes

Q

No	No	No
No	No	No
No	Yes	Yes

R

No	No	No
Yes	Yes	Yes
No	No	Yes

S

Yes	No	Yes
No	No	No
Yes	No	Yes

K. (7,5)

L. (7,5) $x=7$ up $a=1$

M. (-10,0) $x=-10$ down $a=-1$

N. $2x^2-x+7$

O.

Linear	Quadratic	
$\frac{3}{4}x$	$(x+2)(x-1)$	$x^2-9x+18$
$-2x+9$ -13	$6(x-4)^2+3$	
	$-2x^2+11$	
Exponential	**None**	
$-2\cdot(-1)^x$		
0.6^x		
$3^{x+1}\left(\frac{1}{4}\right)^x+12$		

E. general (standard)
$4x^2+8x+3$ $9x^2+3x$ x^2-6x+5

factored form
$(2x+1)(2x+3)$ $-8(5x+4)(x-2)$

Vertex Form
$(x+6)^2-1$ $8(x-3)^2+5$ $2(x+9)^2+3$

F. (0,19) down $a=-3$

G. (0,-1) up $a=1$

H. (1,0) (-3,0) up $a=2$

I (-7,0) (-5,0) down $a=-1$

J. (-1,-8) $x=-1$ up
$a=2$