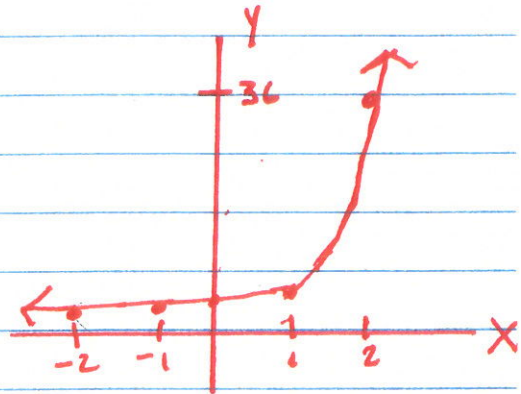


CH 8 REVIEW [HONORS]

PG 545 #'s 35-38, 40-41 (determine type of function - NO RULE)

35 $y = 6^x$

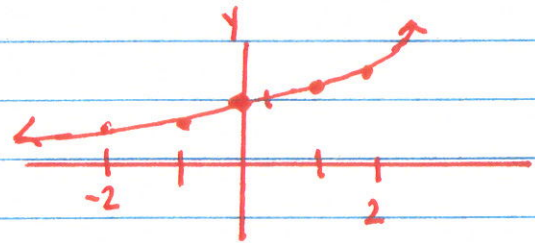
x	y
-2	1/36
-1	1/6
0	1
1	6
2	36



36 $y = (1.1)^x$

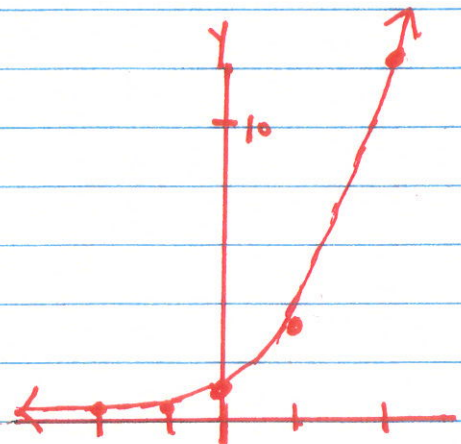
x	-2	-1	0	1	2
y	.83	.91	1	1.1	1.21

#'s 35-38 ALL HAVE SAME
 Domain: $x = \text{all real } \#$
 Range: $y = \text{all real pos}$



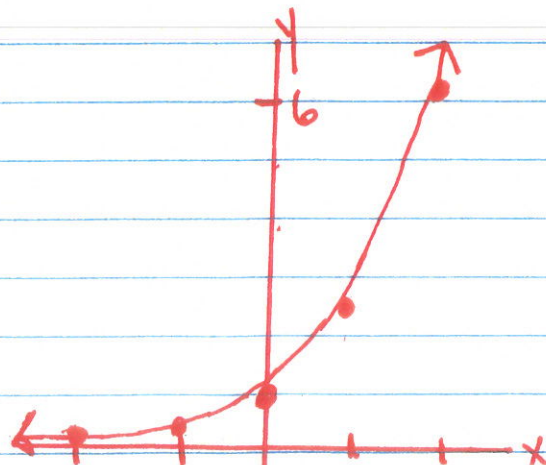
37 $y = (3.5)^x$

x	-2	-1	0	1	2
y	.08	.29	1	3.5	12.25



38 $y = (5/2)^x$

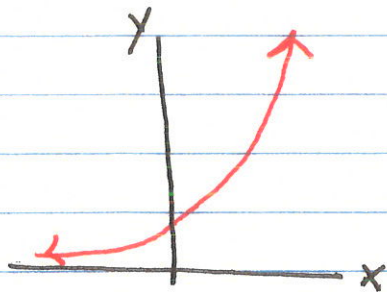
x	y
-2	4/25 = .16
-1	2/5 = .4
0	1 = 1
1	5/2 = 2.5
2	25/4 = 6.25



CH 8 REVIEW | HONORS

PG 545

40

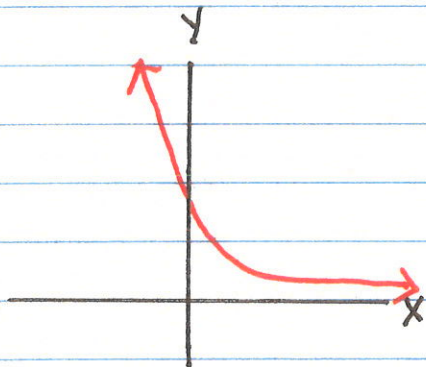


EXPONENTIAL

EQ: GROWTH b/c ① Graph ↗
② EQUATION $B > 1$

$y = 4^x$
↑
B

41



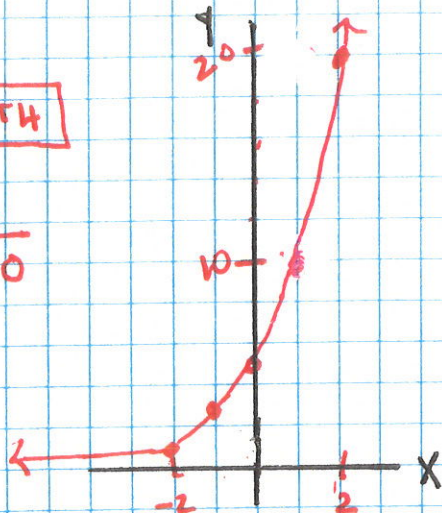
EXPONENTIAL DECAY

① Graph ↘
② EQUATION $0 < B < 1$

EQ: $y = 3\left(\frac{1}{3}\right)^x$
↑
B

155 $y = 5 \cdot 2^x$ GROWTH

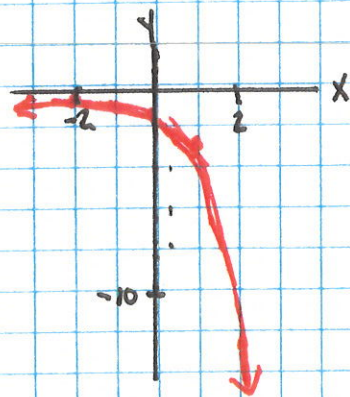
x	-2	-1	0	1	2
y	1.25	2.5	5	10	20



D: $x = \text{all real}$
 R: $y = \text{all pos real \#}$

57 $y = \frac{1}{2} \cdot 5^x$ GROWTH

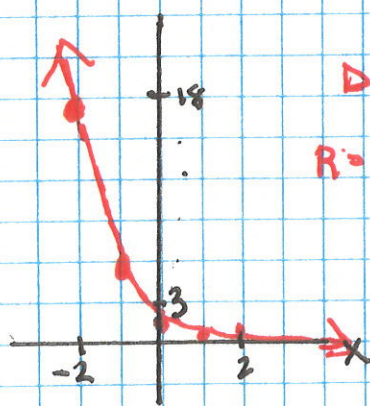
x	-2	-1	0	1	2
y	-.02	-.01	-.5	-2.5	-12.5



D: $x = \text{all real}$
 R: $y = \text{all neg real \#}$

63 $y = 2 \left(\frac{1}{3}\right)^x$ DECAY

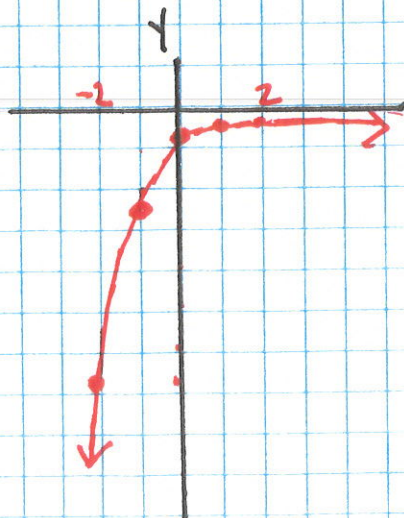
x	-2	-1	0	1	2
y	18	6	2	.67	.22



D: $x = \text{all real}$
 R: $y = \text{all pos real \#}$

67 $y = \frac{3}{4} \left(\frac{1}{3}\right)^x$ DECAY

x	-2	-1	0	1	2
y	-6.75	-2.25	-.75	-.25	-.08



D: $x = \text{all real numbers}$
 R: $y = \text{all negative real numbers}$

