Handout 15: 3.8 Graphs of Exponential Functions

1. Find the equation for each function given in table form below. They are either of the form $y = ax + b$ or $y = ab^x$.

a.

x	$f(x)$
–1	1.875
0	2
1	2.125
2	2.25
3	2.375

b.

t	$P(t)$
–1	$-2\frac{2}{3}$
0	–4
1	–6
2	–9
3	$-13\frac{1}{2}$

c.

n	$C(n)$
–3	25.6
–2	6.4
–1	1.6
0	0.4
1	0.1

d.

a	$g(a)$
–2	–8.7
0	–2.3
2	4.1
4	10.5
6	16.9

e.

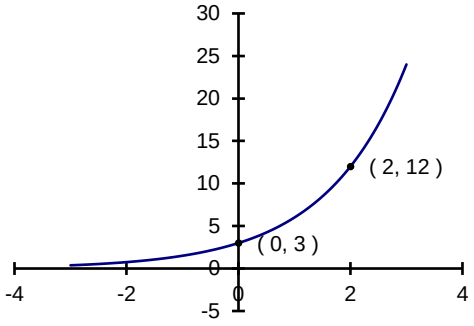
c	$m(c)$
1	11.7
2	10.53
3	9.477
4	8.5293
5	7.67637

f.

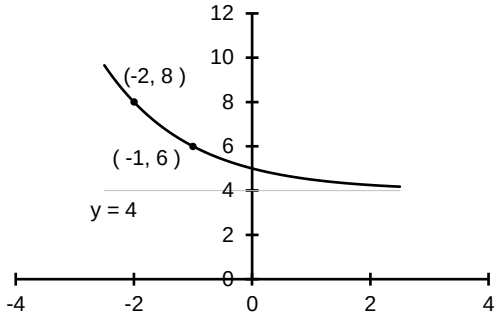
x	$h(x)$
–5	128
–3	32
–1	8
1	2
3	$\frac{1}{2}$

2. Find an equation for each exponential function graphed below.

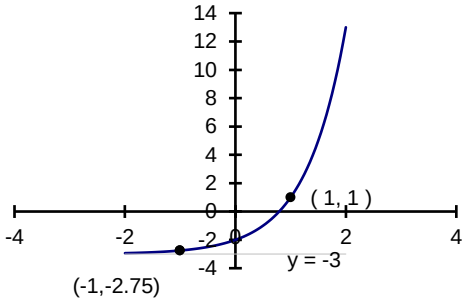
a.



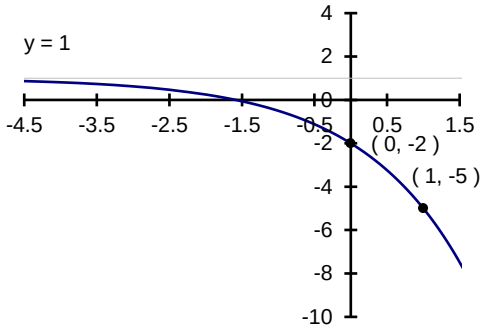
b.



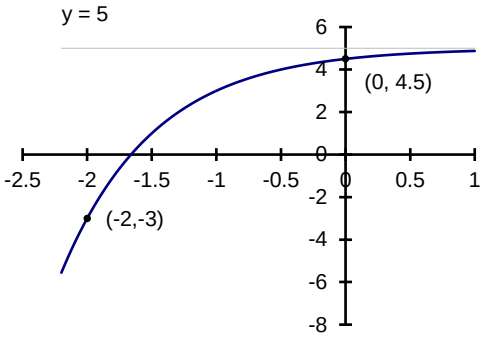
c.



d.



e.



f.