

p. 656

Adan B
Thomas J.
+

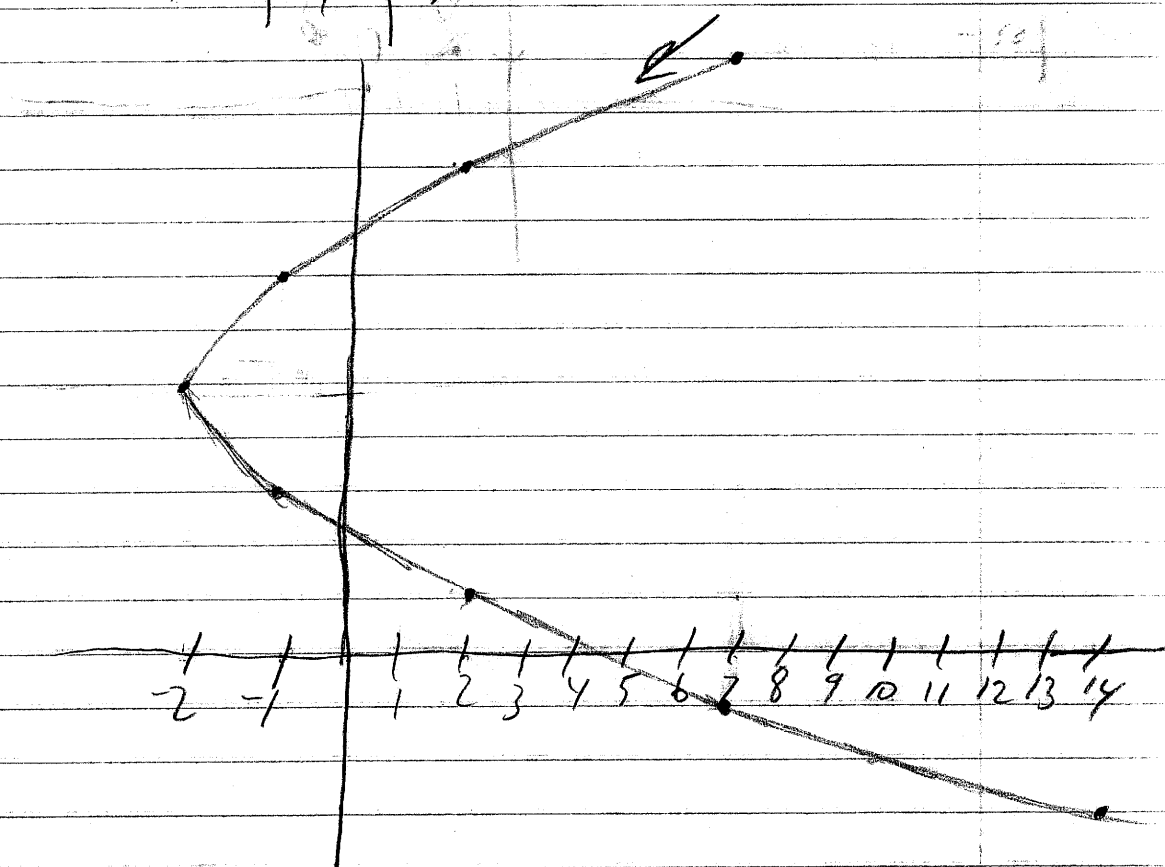
2. $x = t^2 - 2$

$y = 5 - 2t$

$-3 \leq t \leq 4$

a).

t	x	y
-3	7	11
-2	2	9
-1	-1	7
0	-2	5
1	-1	3
2	2	1
3	7	-1
4	14	-3



b. $\frac{5-y}{2} = t$

$x = \left(\frac{5-y}{2}\right)^2 - 2$

t

15. $x = e^t$

$y = e^t$

$y = \frac{1}{e^t}$

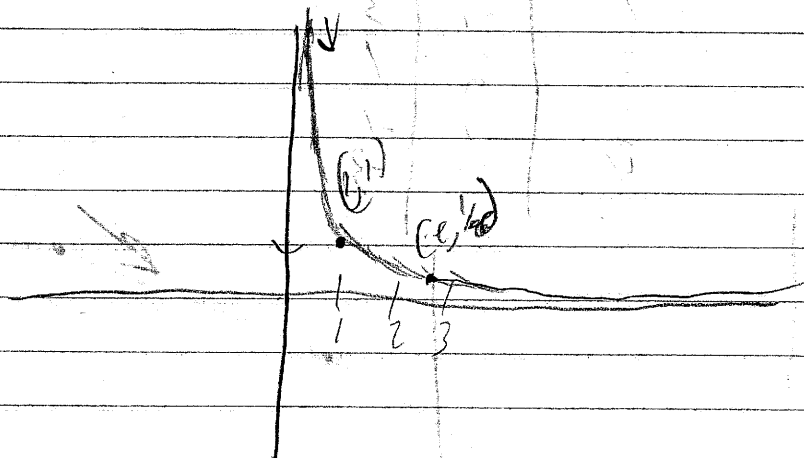
$y = \frac{1}{x}$

$\frac{1}{\max}$
 e

a.

b.

t	x	y
0	1	1
1	e	$\frac{1}{e}$



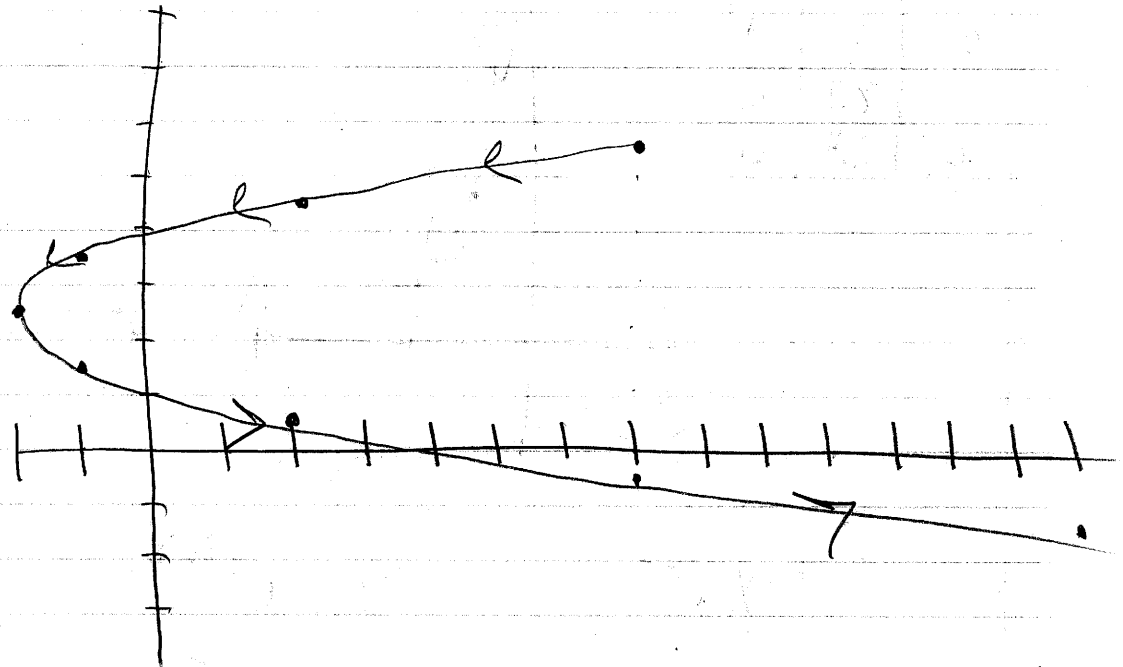
Tanner Bert
Andy Chleborad
Justin Ashley

+

7, 15, 24, 25, 27, 29

7.) $x = T^2 - 2$ $y = 5 - 2T$ $-3 \leq T \leq 4$

T	x	y
-3	7	11
-2	2	9
-1	-1	7
0	-2	5
1	-1	3
2	2	1
3	7	-1
4	14	-3



$$\begin{aligned} y &= 5 - 2T \\ y - 5 &= -2T \\ -\frac{y-5}{2} &= T \end{aligned}$$

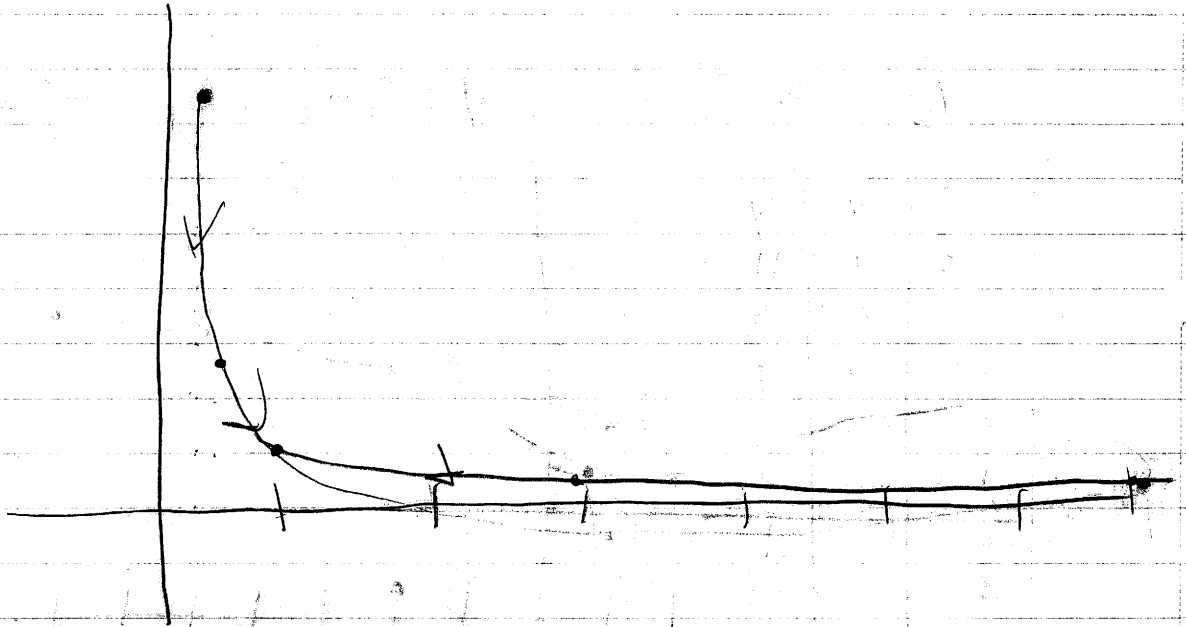
$$\begin{aligned} x &= T^2 - 2 \\ x &= \left(-\frac{y-5}{2}\right)^2 - 2 \end{aligned}$$

15)

$$x = e^T \quad y = e^{-T}$$

$$-2 \leq T \leq 2$$

T	x	y
-2	0.14	7.4
-1	2.37	2.7
0	1	1
1	2.7	0.37
2	7.4	0.14



$$\ln x = T$$

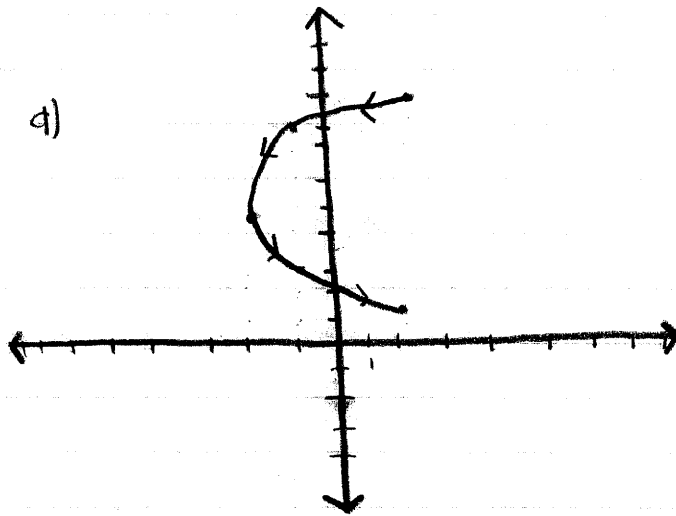
$$y = e^{-\ln x}$$

$$y = \frac{1}{x}$$

P. 656 7, 15, 24, 25, 27, 28

7.) $x = t^2 - 2$ $t = 5 - 2t$ $-3 \leq t \leq 4$

t	x	t
0	-2	5
1	-1	3
2	2	1
-1	-1	8
-2	2	9



b.)

$$t = 5 - 2t$$

$$\frac{t - 5 = -2t}{-2} = t$$

$$x = \left(\frac{-t-5}{2}\right)^2 - 2$$

15.) $x = e^t$, $t = e^{-t}$

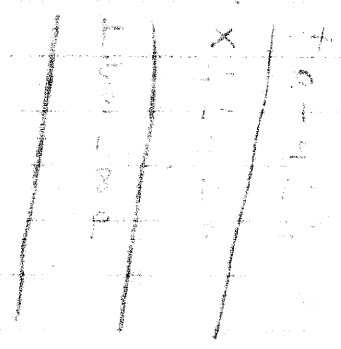
a.) $\ln x = t$

$$t = \frac{\ln x}{x}$$

b.)

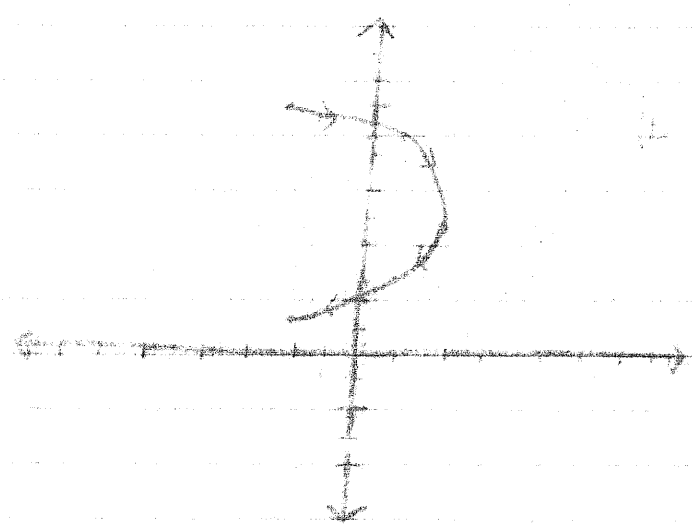
15th Dec 2009

1. The function $f(x) = x^2 - 4x + 4$



$f(x) = x^2 - 4x + 4$
 $f'(x) = 2x - 4$
 $f''(x) = 2$

$f(2) = 0$



$f(x) = 0$ $f(x) = x$ (2)

$f(x) = x^2 - 4x + 4$
 $f(x) = x$
 $x^2 - 4x + 4 = x$
 $x^2 - 5x + 4 = 0$
 $(x-4)(x-1) = 0$
 $x = 4$ or $x = 1$