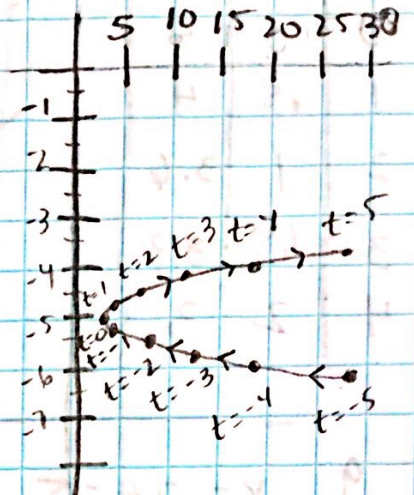


HW #57 p. 469 1-15 odd

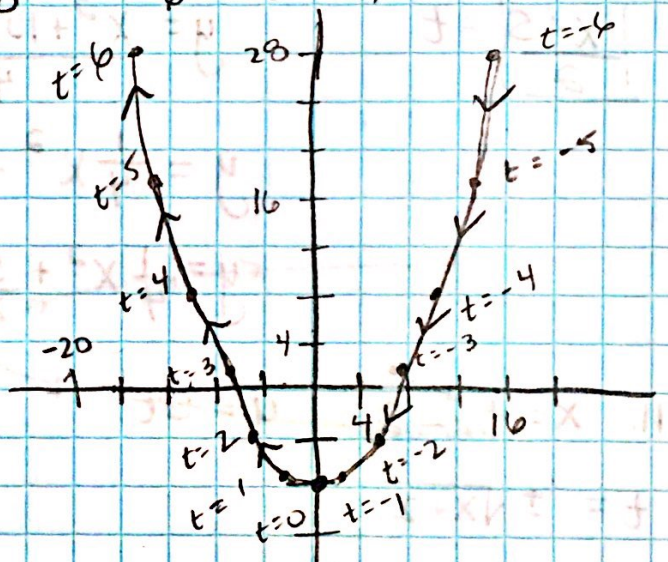
1. $x = t^2 + 3$ $y = \frac{t}{4} - 5$ $-5 \leq t \leq 5$

t	x	y	t	x	y
-5	28	-6.25	0	3	-5
-4	19	-6	1	4	-4.75
-3	12	-5.75	2	7	-4.5
-2	7	-5.5	3	12	-4.25
-1	4	-5.25	4	19	-4
			5	28	-3.75



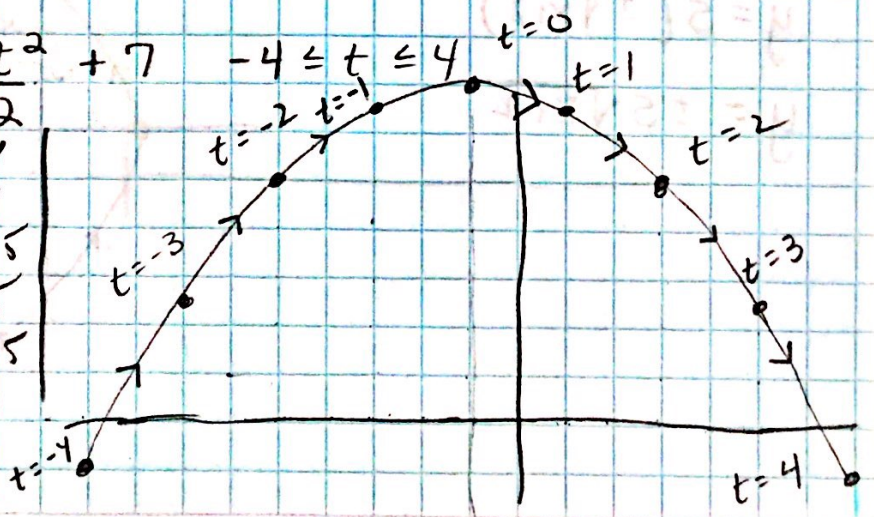
3. $x = -\frac{5t}{2} + 4$ $y = t^2 - 8$ $-6 \leq t \leq 6$

t	x	y	t	x	y
-6	15	28	0	4	-8
-5	12.5	17	1	2.5	-7
-4	10	8	2	-5	-4
-3	7.5	1	3	-7.5	1
-2	5	-4	4	-10	8
-1	2.5	-7	5	-12.5	17
			6	-15	28



5. $x = 2t - 1$ $y = -\frac{t^2}{2} + 7$ $-4 \leq t \leq 4$

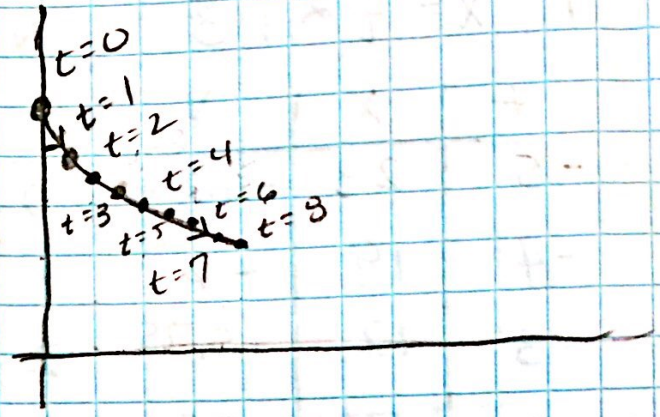
t	x	y	t	x	y
-4	-9	-1	0	-1	7
-3	-7	2.5	1	1	6.5
-2	-5	5	2	3	5
-1	-3	6.5	3	5	2.5
			4	7	-1



7. $x = \frac{t}{2}$ $y = -\sqrt{t} + 5$ $0 \leq t \leq 8$

t	x	y
0	0	5
1	.5	4
2	1	3.6
3	1.5	3.3
4	2	3

t	x	y
5	2.5	2.8
6	3	2.6
7	3.5	2.4
8	4	2.2



9. $x = 2t - 5$

$y = t^2 + 4$

$\frac{x+5}{2} = \frac{2t}{2}$

$y = \left(\frac{x+5}{2}\right)^2 + 4$

$\frac{x+5}{2} = t$

$y = \frac{x^2 + 10x + 25}{4} + 4$



$y = \frac{1}{4}x^2 + \frac{5}{2}x + \frac{25}{4} + \frac{16}{4}$

$y = \frac{1}{4}x^2 + \frac{5}{2}x + \frac{41}{4}$ or $y = .25x^2 + 2.5x + 10.25$

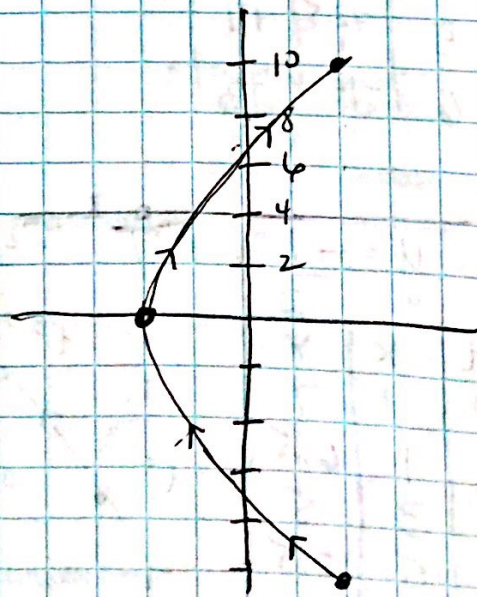
11. $x = t^2 - 2$

$y = 5t$

$t = \pm\sqrt{x+2}$

$y = 5(\pm\sqrt{x+2})$

$y = \pm 5\sqrt{x+2}$



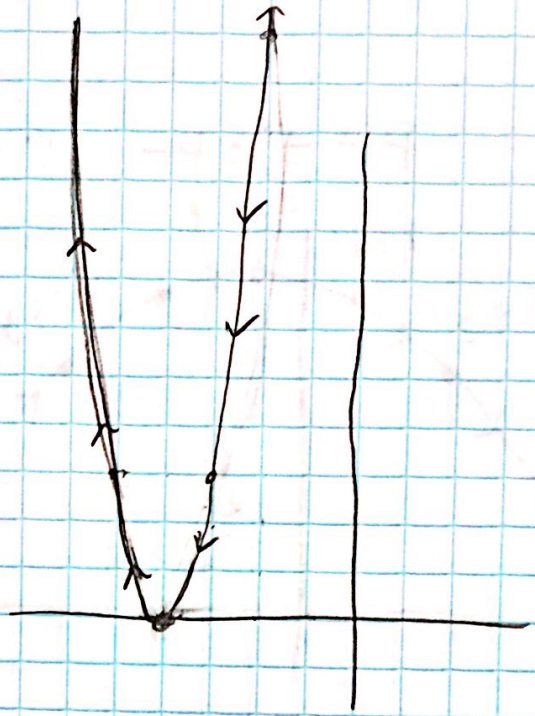
$$13. \quad x = -t - 4 \quad y = 3t^2$$

$$t = \boxed{-x - 4}$$

$$y = 3(-x - 4)^2$$

$$y = 3(x^2 + 8x + 16)$$

$$y = 3x^2 + 24x + 48$$



$$15. \quad x = 4t^2 \quad y = \frac{6t}{5} + 9$$

$$t = \pm \sqrt{\frac{x}{4}}$$

$$y = \frac{6\left(\pm\sqrt{\frac{x}{4}}\right)}{5} + 9$$

$$y = \pm \frac{6\sqrt{x}}{5 \cdot 2} + 9$$

$$y = \pm \frac{6\sqrt{x}}{10} + 9$$

$$y = \pm \frac{3\sqrt{x}}{5} + 9$$

