ES-1

VI-1

V1 (volts)	V2 (volts)	p
25	0.3	-82.3
27	0.3	-89
21	0.1	-209
27	0.3	-89
26	0.4	-64

$\dot{p}$ = 0.98913

$\sigma_{\dot{p}}$ = 0.00384

$\dot{p} \pm \sigma_{\dot{p}} = 0.989 \pm 0.00$ 4

VI-3

V1 (volts)	V2 (volts)	Vfinal-observed(volts)	Vfinal-expected (volts)
-7	5	-2	-2
-15	19	3	4
-21	9	-13	-12
-9	3	-5	-6

Based on conservation of charge, Vfinal-expected = V1+V2

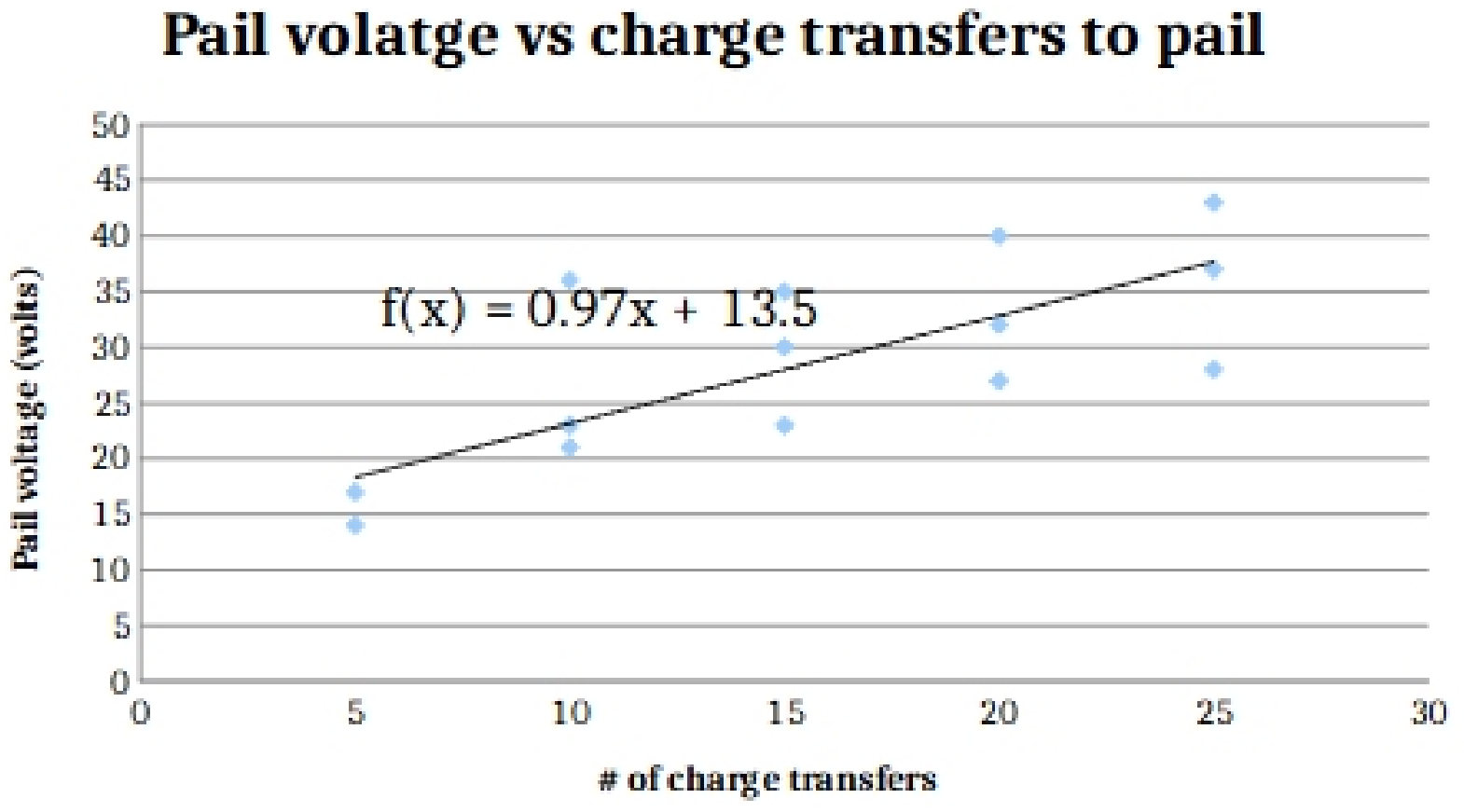
Yes, the observed and the expected final voltages are approximately same.

VI-4

Vinsert (volts)	Vground (volts)	Vwithdr (volts)	Vfinal (volts)
22	0	-22	7
29	0	-29	8
25	0	-25	10

V1-5

V5 (volts)	V10 (volts)	V15 (volts)	V20 (volts)	V25 (volts)
14	23	30	32	37
14	21	23	27	28
17	36	35	40	43



V5 (volts)	V10 (volts)	V15 (volts)	V20 (volts)	V25 (volts)
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0