

Key

Graphing Radical Functions

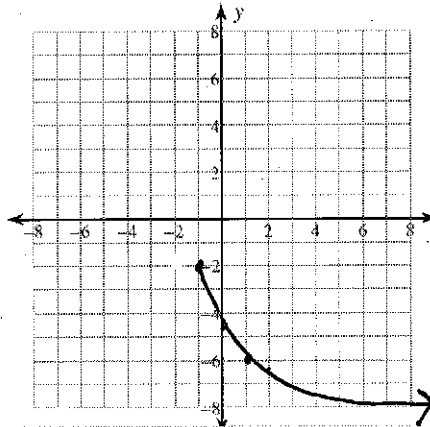
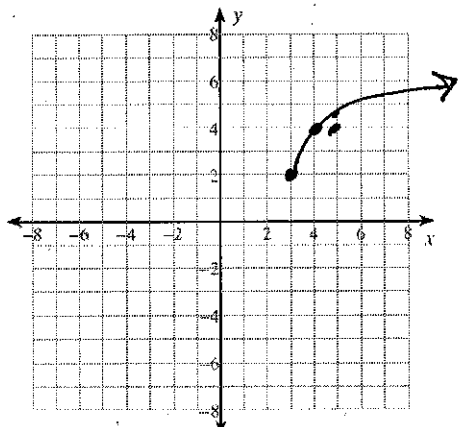
Graph the following radical functions equations. List the Domain and Range in interval notation.

1. $f(x) = 2\sqrt{x-3} + 2$

2. $f(x) = -\sqrt{2x+2} - 2$

~~scribbles~~

D: $[3, \infty)$
R: $[2, \infty)$



X	y
-2	error
-1	-2
0	-4.8
1	-6
2	-6.9

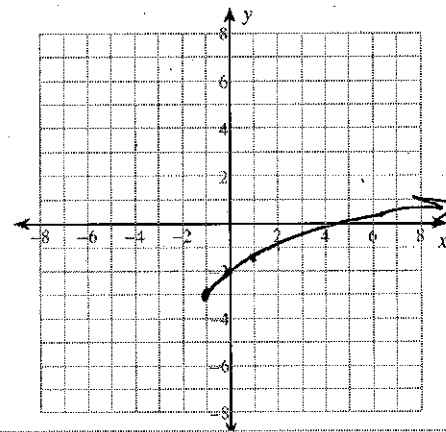
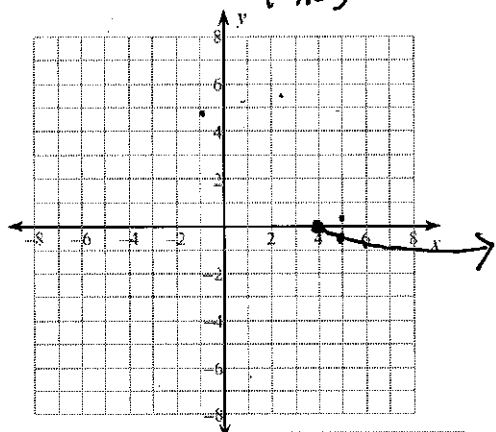
D: $[-1, \infty)$
R: $[-2, -\infty)$

3. $f(x) = -\frac{1}{3}\sqrt{x-4}$

4. $f(x) = \sqrt{x+1} - 3$ $(-1, -3)$

X	y
4	0
5	-0.33
6	-0.47
7	-0.57
8	-0.66

D: $[4, \infty)$
R: $[0, -\infty)$



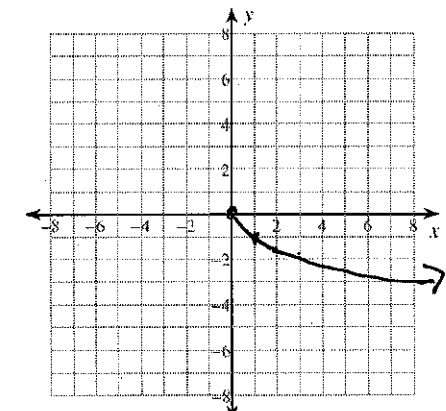
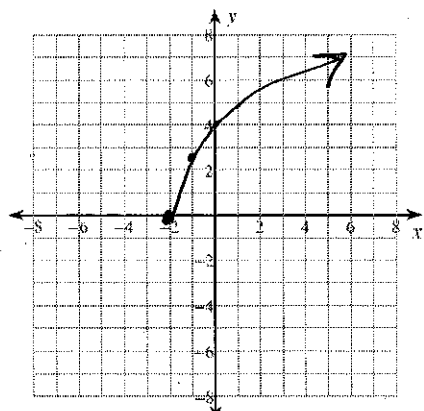
X	y
-1	-3
0	-2
1	-1.6
2	-1.3

D: $[-1, \infty)$
R: $[-3, \infty)$

5. $f(x) = 4\sqrt{\frac{1}{2}x+1}$

6. $f(x) = -\sqrt{x}$

X	y
-2	0
-1	2.8
0	4
1	4.9
2	5.7



X	y
0	0
1	-1
2	-1.4
3	-1.7

D: $[0, \infty)$
R: $[0, -\infty)$

D: $[-2, \infty)$
R: $[0, \infty)$