Graphing Radical Functions WS1 Key!

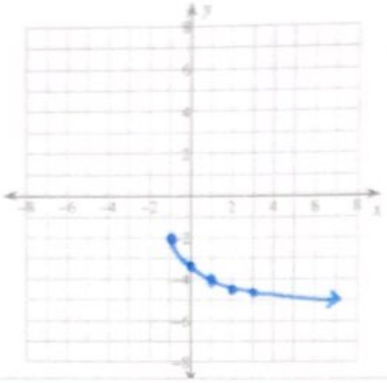
Graph the following radical functions equations. List the ***Domain and Range*** in interval notation.

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

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

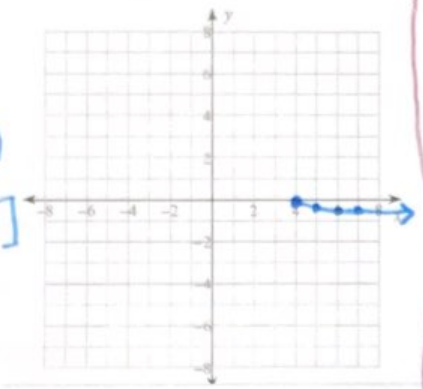
2. $f(x) = -\sqrt{2x+2}-2$ ★ $f(x) = -\sqrt{2(x+1)}-2$

↑ factor out the 2



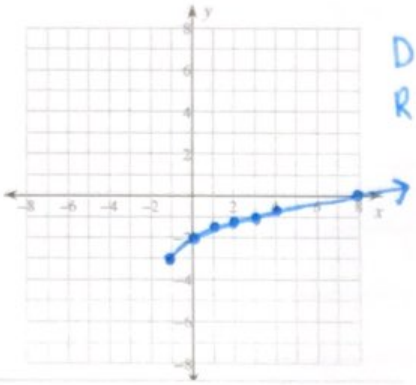
D: $[-1,\infty)$
R: $(-\infty,-2]$

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



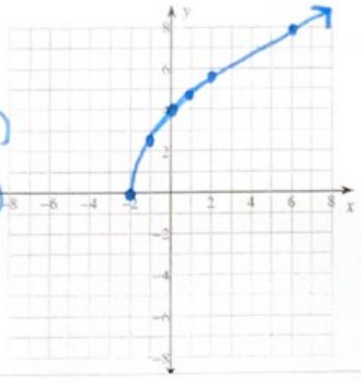
D: $[4,\infty)$
R: $(-\infty,0]$

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



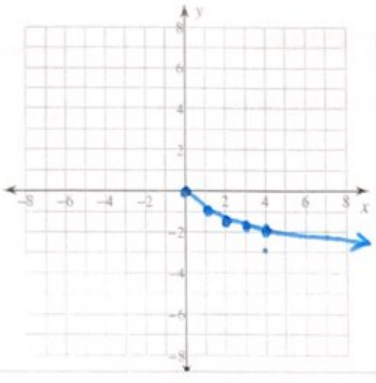
D: $[-1,\infty)$
R: $[-3,\infty)$

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



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

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



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