Functions Involving Radicals

In problems 1-6, evaluate each radical function at the indicated values

1. $f(x)=\sqrt{x+3}$ $a) f(5)$ $b) f(22)$	2. $f(x)=\sqrt{7x-1}$ $a) f(4)$ $b) f(3)$
3. $f(x)=-\sqrt{8x+2}$ $a) f(6)$ $b) f(11)$	4. $f(x)=\sqrt[3]{x-2}$ $a) f(10)$ $b) f(56)$
5. $f(x)=\sqrt{\frac{x-3}{x+1}}$ $a) f(4)$ $b) f(8)$	$f(x)=\sqrt[3]{\frac{x}{x+3}}$ 6. $a) f(24)$ $b) f(2)$

In problems 7-12, find the domain of the radical function.

7. $f(x)=\sqrt{x+3}$	8. $f(x)=\sqrt{5x-1}$
9. $f(x)=\sqrt[5]{x+1}$	10. $f(x)=\sqrt[7]{2x-3}$
11. $f(x)=\sqrt[4]{x+7}$	12. $f(x)=\sqrt[5]{2x+5}$

In problems 13-17, Graph the function

13. $f(x)=\sqrt{x+2}$	14. $f(x)=\sqrt{3x-1}$
15. $f(x)=\sqrt{x+5}$	16. $f(x)=\sqrt{3-x}$
17. $f(x)=\sqrt{x}+2$	