Drill 8: Absolute value inequalities

Simplify, leaving as little as possible inside the absolute value signs
1. $|7x|$  
2. $|a^8|$  
3. $|11x^2y^9|$  
4. $|5p^4q^4|$  
5. $|a^5b^3|$  
6. $|y^{12}z^{11}|$  

Find the distance between the points having the given coordinates
7. $-6, -35$  
8. $-7, 26$  
9. $-8, 0$  
10. $14, 2$  
11. $9, -12$  
12. $-17, -26$  

Solve. Then graph.
13. $|y| \leq 6$  
14. $|m| > 3$  
15. $|t| > 0$  
16. $|x - 2| = 9$  
17. $|3y - 7| < 5$  
18. $|7x - 5| > 9$  
19. $|3m| > 6$  
20. $\left|\frac{1}{4}x\right| \leq 2$  
21. $|y + 4| < 2$