Solve the following equations. SHOW YOUR WORK. Check your answers.

1. $x^2 + 1 = 26$	2. $\sqrt{x-2} = 2$
3. $\sqrt{3x} - 8 = 6$	4. $\dfrac{x}{8} + \dfrac{3}{4} = -2$
5. $\dfrac{x}{8} + \dfrac{3}{4} = -\dfrac{1}{2}$	6. $\dfrac{3}{2x} + \dfrac{x+2}{x} = 2$