



# **SoulShift - Educational Q&A Platform**

## **General Questions**

Practice Questions



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**Q1. What are the roots of the quadratic equation  $x^2 + 4x + 4 = 0$ ?**

- A.  $x = -2, -2$
- B.  $x = 2, 2$
- C.  $x = -4, 0$
- D.  $x = 0, 4$

*Solution: Step 1: Factor the equation:  $(x + 2)(x + 2) = 0$ . Step 2: Set the factor to zero:  $x + 2 = 0$ . Step 3: Solution is  $x = -2$  (double root).*

**Q2. Which of the following inequalities represents the solution to  $2x + 3 \geq 7$ ?**

- A.  $x > 2$
- B.  $x < 2$
- C.  $x > 3$
- D.  $x < 3$

*Solution: Step 1: Subtract 3 from both sides:  $2x \geq 4$ . Step 2: Divide by 2:  $x \geq 2$ .*



