

Name: ANSWER KEY

Score: \_\_\_\_\_

Solve:  $24x + 9 = -16x^2$

$$16x^2 + 24x + 9 = 0$$

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$$(A) (4x+3)^2 = 0$$

$$4x+3=0 \Rightarrow \boxed{x = -\frac{3}{4}, -\frac{3}{4}}$$

$$(B) a=16, b=24, c=9$$

$$x = \frac{-24 \pm \sqrt{24^2 - 4 \cdot 16 \cdot 9}}{2 \cdot 16} = \frac{-24 \pm \sqrt{0}}{32} = -\frac{3}{4}, -\frac{3}{4}$$