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Solution: a + (-1) · a = 1 · a + (-1) · a = (1 + (-1)) · a = 0, because of the definition of 1 and -1 and distributivity. Therefore the uniqueness of the additive inverse implies (-1) · a = -a. ⇒ (-a) · (-b) = ((-1) · a) · ((-1) · b), which further equals ((-1) · (-1)) · ab because associativity of multiplication and commutativity.

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