

Alice publishes her public values $(p, \alpha, \beta) = (10883, 121, 4158)$

Which of the following messages have are valid Elgamal signatures for Alice?

1. $(x, (r, s)) = (5321, (3709, 56))$
2. $(x, (r, s)) = (5321, (793, 138))$
3. $(x, (r, s)) = (5321, (7054, 10001))$