Да се намерят контекстносвободни граматики за езиците $L(\Gamma_1) \cup L(\Gamma_2)$, $L(\Gamma_1) \circ L(\Gamma_2)$ и $L(\Gamma_1)^*$, където Γ_1 и Γ_2 са някои измежду следните контекстносвободни граматики:

$$\langle \{a,b\}, \{S_1\}, S_1, \{S_1 \to \varepsilon | aS_1 aS_1 b\} \rangle$$
$$\langle \{a,b\}, \{S_2, T_2\}, S_2, \{S_2 \to T_2 bT_2 | aS_2 b, T_2 \to \varepsilon | aS_2 a\} \rangle$$
$$\langle \{a,b\}, \{S_1, T_1\}, S_1, \{S_1 \to T_1 S_1 a, T_1 \to T_1 bS_1 | aS_1 b | a | \varepsilon\} \rangle$$
$$\langle \{a,b\}, \{S_2\}, S_2, \{S_2 \to a | aS_2 bS_2 | bbS_2 a | S_2 aS_2\} \rangle$$
$$\langle \{a,b\}, \{S_1\}, S_1, \{S_1 \to b | aS_1 a | S_1 S_1 | S_1 aS_1 aS_1\} \rangle$$
$$\langle \{a,b\}, \{S_1\}, S_1, \{S_1 \to \varepsilon | aaS_1 S_1 b\} \rangle$$
$$\langle \{a,b\}, \{S_2, T_2\}, S_2, \{S_2 \to T_2 T_2 | aS_2 bb, T_2 \to \varepsilon | aS_2 a\} \rangle$$
$$\langle \{a,b\}, \{S_1, T_1\}, S_1, \{S_1 \to T_1 aS_1, T_1 \to T_1 S_1 | aS_1 b | a | \varepsilon\} \rangle$$
$$\langle \{a,b\}, \{S_2\}, S_2, \{S_2 \to a | aS_2 b | bbS_2 a | S_2 aS_2\} \rangle$$

$$\langle \{a,b\}, \{S_1\}, S_1, \{S_1 \to b | aS_1 a | S_1 S_1\} \rangle$$
$$\langle \{S, A, B\}, \{a,b\}, S, \{S \to a | AS, A \to \varepsilon | aB, B \to b | AA\} \rangle$$
$$\langle \{S, A\}, \{a,b\}, S, \{S \to a | bAa, A \to aSb\} \rangle$$
$$\langle \{S\}, \{a,b\}, S, \{S \to a | abS\} \rangle$$
$$\langle \{S\}, \{a,b\}, S, \{S \to ba | bSa\} \rangle$$
$$\langle \{S, A\}, \{a,b\}, S, \{S \to AabA, A \to \varepsilon | bSb\} \rangle$$
$$\langle \{S, A\}, \{a,b\}, S, \{S \to aAb, A \to b | bSa\} \rangle$$
$$\langle \{S_1\}, \{a,b\}, S_1, \{S_1 \to \varepsilon | aS_1 S_1 ba\} \rangle$$
$$\langle \{S_2, T_2\}, \{a,b\}, S_2, \{S_2 \to T_2 T_2 | aS_2 bb, T_2 \to \varepsilon | aT_2 a\} \rangle$$

$$\langle\{S_1, T_1\}, \{a, b\}, S_1, \{S_1 \to aT_1aS_1, aT_1 \to T_1T_1|aS_1b|a|\varepsilon\}\rangle$$

$$\langle\{S_2\}, \{a, b\}, S_2, \{S_2 \to a|b|aS_2b|bS_2a|S_2S_2\}\rangle$$

$$\langle\{S_1, T_1\}, \{a, b\}, S_1, \{S_1 \to a|b|aT_1a, T_\to aS_2\}\rangle$$

$$\langle\{a, b\}, \{S_1, T_1\}, S_1, \{S_1 \to T_1aS_1, T_1 \to T_1S_1|aS_1b|a|\varepsilon\}\rangle$$

$$\langle\{a, b\}, \{S_2\}, S_2, \{S_2 \to a|aS_2b|bbS_2a|S_2aS_2\}\rangle$$

$$\langle\{a, b\}, \{S_1\}, S_1, \{S_1 \to b|aS_1a|S_1S_1\}\rangle$$

$$\langle\{a, b\}, \{S_1\}, S_1, \{S_1 \to \varepsilon|aaS_1S_1b\}\rangle$$

$$\langle\{a, b\}, \{S_2, T_2\}, S_2, \{S_2 \to T_2T_2|aS_2bb, T_2 \to \varepsilon|aS_2a\}\rangle$$

$$\langle\{a, b\}, \{S_1\}, S_1, \{S_1 \to \varepsilon|aS_1aS_1b\}\rangle$$

$$\langle\{a, b\}, \{S_2, T_2\}, S_2, \{S_2 \to T_2bT_2|aS_2b, T_2 \to \varepsilon|aS_2a\}\rangle$$

$$\langle\{a, b\}, \{S_1, T_1\}, S_1, \{S_1 \to T_1S_1a, T_1 \to T_1bS_1|aS_1b|a|\varepsilon\}\rangle$$

$$\langle\{a, b\}, \{S_2\}, S_2, \{S_2 \to a|aS_2bS_2|bbS_2a|S_2aS_2\}\rangle$$

$$\langle\{a, b\}, \{S_1\}, S_1, \{S_1 \to b|aS_1a|S_1S_1|S_1aS_1aS_1\}\rangle$$

$$\langle\{a, b\}, \{S_1\}, S_1, \{S_1 \to \varepsilon|bbS_1|aS_1b\}\rangle$$

$$\langle\{a, b\}, \{S_2, T_2\}, S_2, \{S_2 \to T_2bS_2|aS_2b, T_2 \to \varepsilon|aS_2a\}\rangle$$

$$\langle\{a, b\}, \{S_1, T_1\}, S_1, \{S_1 \to T_1aS_1, T_1 \to T_1bS_1|aT_1b|a|\varepsilon\}\rangle$$

$$\langle\{a, b\}, \{S_2\}, S_2, \{S_2 \to a|aS_2b|bbS_2a|S_2aS_2\}\rangle$$

$$\langle\{a, b\}, \{S_1\}, S_1, \{S_1 \to b|S_1S_1|S_1aS_1aS_1\}\rangle$$

$$\langle\{a, b\}, \{S_1\}, S_1, \{S_1 \to \varepsilon|bbS_1|aS_1b\}\rangle$$

$$\langle\{a, b\}, \{S_2, T_2\}, S_2, \{S_2 \to T_2bS_2|aS_2b, T_2 \to \varepsilon|aS_2a\}\rangle$$

$$\langle\{a, b\}, \{S_1, T_1\}, S_1, \{S_1 \to T_1aS_1, T_1 \to T_1bS_1|aT_1b|a|\varepsilon\}\rangle$$

$$\langle\{a, b\}, \{S_2\}, S_2, \{S_2 \to a|aS_2b|bbS_2a|S_2aS_2\}\rangle$$

$$\langle\{a, b\}, \{S_1\}, S_1, \{S_1 \to b|S_1S_1|S_1aS_1aS_1\}\rangle$$

$$\langle\{a, b\}, \{S_1\}, S_1, \{S_1 \to \varepsilon|bbS_1S_1|aS_1b\}\rangle$$

$$\langle\{a, b\}, \{S_2, T_2\}, S_2, \{S_2 \to T_2bS_2|aS_2b, T_2 \to \varepsilon|aT_2S_2a\}\rangle$$

$$\langle\{a, b\}, \{S_1, T_1\}, S_1, \{S_1 \to T_1aS_1, T_1 \to T_1bS_1|aT_1b|a|\varepsilon\}\rangle$$

$$\langle\{a, b\}, \{S_2\}, S_2, \{S_2 \to \varepsilon|a|aS_2b|bbS_2a|aS_2\}\rangle$$

$$\langle\{a, b\}, \{S_1\}, S_1, \{S_1 \to b|S_1S_1S_1|bS_1aS_1\}\rangle$$