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1) Find the Bézout coefficients of 533 and 195 using Euclidean algorithm:

- step 7: Finding god (533, 195)

=> 9cd (533, 195) =[13]

as a linear combination of 195 and 533.

$$\begin{array}{c}
\boxed{13 = 52 - 39} \\
\boxed{13 = 52 - (143 - 2x52) = -1 \times 143 + 3 \times 52} \\
\boxed{13 = -1 \times 143 + 3 \times (195 - 143) = 3 \times 195 - 4 \times 143} \\
\boxed{13 = 3 \times 195 - 4 \times (533 - 2 \times 195) = -4 \times 533 + 11 \times 195} \\
\hline
13 = -4 \times 533 + 11 \times 195
\end{array}$$