MATH 61A Problem Set 4

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Exercise 3.5.15

In each of the following, use the Euclidian algorithm to calculate the gcd and to find appropriate integers $x, y \in \mathbb{Z}$
(1) Find integers $x, y \in \mathbb{Z}$ such that $547x + 632y = \gcd(547, 632)$
(2) Find integers $x, y \in \mathbb{Z}$ such that $398x + 620y = \gcd(398, 600)$