Name: [_____]

Use the substitution method to solve the following simultaneous equations.

(a) $x + 2y = 5$ ⟶ ①

$2x - 3y = 3$ ⟶ ②

From ①, $x + 2y = 5$

$x = $ [_____] ⟶ ③

Substitute ③ into ②

$2(x) - 3y = 3$

$2($ [_____] $) - $ [__] $ = $ [__]

[_____] $ - $ [__] $ = $ [__]

[__] $ - $ [__] $ = $ [__]

[__] $ = $ [__] $ - $ [__]

[__] $ = $ [__]

$y = \dfrac{[]}{[]}$

$y = $ [__]

Substitute $y = $ [__] into ③

$x = 5 - 2y$

$x = 5 - 2($ [__] $)$

$x = 5 - $ [__]

$x = $ [__]

Hence, the solution is $x = $ [__] and $y = $ [__]