[3.1]
$$2x = 4 \pmod{14}$$

[2x = 4 \text{ (mod 14)}

[2x = 4 \text{ (mod 15)}

[2x = 2 \text{ (mod 15)}

[2x = 4 \text{ (mod 14)}

[2x = 4 \text{ (mod 15)}

[2x = 4 \text{ (mod 16)}

[2x = 4 \text{ (mod 15)}

[2x = 4 \text{ (mod 16)}

[2x = 4 \text{ (mod 15)}

[2x = 4 \text{ (mod 15)}

[2x = 4 \text{ (mod 16)}

[2x = 4 \text{ (mod 16)}

[2x = 4 \text{ (mod 15)}

[2x = 4 \text{ (mod 16)}

[2x = 4 \text{ (mod 1