

Homework 7 Hexin Bi

$$1. \quad \cancel{19 = 1 + 10 + 9} \quad 5 = 1 \cdot 19 - 1 \cdot 14.$$

$$\cancel{9 = 3 \times 3}$$

$$14 = 1 \cdot 5 + 9 \text{ so}$$

$$\cancel{14 = 1 \cdot 10 + 4}$$

$$9 = 14 - 5 = 14 - (1 \cdot 19 - 1 \cdot 14) = 14 \times 2 - 1 \cdot 19$$

$$\cancel{4 = 3 \times 1 + 1}$$

$$5 = 9 - 4$$

$$7 =$$

$$4 = 14 \times 2 - 1 \cdot 19 - (1 \cdot 19 - 1 \cdot 14) = 3 \times 14 - 2 \times 19$$

$$1 = 5 - 4 = 3 \times 19 - 4 \times 14$$

Thus, give the cashier 3 19 dollar coins, and he gives you back 4 14 dollar coin



$$2. 109 = 1 \times 95 + 14$$

$$14 = 109 - 95$$

$$95 = 14 \times 6 + 11$$

$$11 = 7 \times 95 - 6 \times 109$$

$$3 = 14 - 11 = 7 \times 109 - 8 \times 95$$

$$11 = 3 \times 3 + 2$$

$$2 = 31 \times 95 - 27 \times 109$$

$$1 = 3 - 2 = 34 \times 109 - 39 \times 95$$

Give the cashier 34, 109 dollars coin, returned 39 95 dollar coin.

$$3. 37 = 2 \times 16 + 5$$

$$5 = 37 - 2 \times 16$$

$$16 = 3 \times 5 + 1$$

$$1 = 16 - 3 \times (37 - 2 \times 16)$$

$$= 7 \times 16 - 3 \times 37$$

Put on 7 16 kg weights and minus 3, 37 kg weights

4.



扫描全能王 创建