v w

宿題

- Encuentre v y w con $d = va + wb$ cuando a y b son ambos positivos.

a. $a = 93$, $b = 42$, $d = 3$

- $93 = 2 \cdot 42 + 9$
  $42 = 4 \cdot 9 + 6$
  $9 = 1 \cdot 6 + 3$ MCD
  $6 = 2 \cdot 3 + 0$

- $9 = 93 - 2 \cdot 42$
  $6 = 42 - 4 \cdot 9$
  $3 = 9 - 1 \cdot 6$

- $3 = 9 - 1(42 - 4(9))$
  $3 = 9 - 42 + 4(9)$
  $3 = -42 + 5(9)$

$3 = -42 + 5(93 - 2 \cdot 42)$
$= -42 + 5(93) - 10(42)$

$3 = \underset{v}{5}(93) - \underset{w}{11}(42)$

b. $a = 70$, $b = 29$, $d = 2$

- $70 = 2 \cdot 29 + 12$ → redo pls
  $58 = 4 \cdot 12 + 10$
  $12 = 1 \cdot 10 + 2$ MCD
  $10 = 5 \cdot 2 + 0$

- $12 = 70 - 2 \cdot 58$
  $10 = 58 - 4 \cdot 12$
  $2 = 12 - 1 \cdot 10$

- $2 = 12 - 10$
  $2 = 12 - (58 - 4(12))$
  $2 = 1(12) - 58 + 4(12)$
  $2 = 5(12) - 58$

$2 = 5(70 - 2(58)) + 1(58)$

$2 = 5(70) + 11(58)$ WHAT