Paula Barillas #22764

Actividad #8

1. mcd(254, 32)

$\frac{254}{32} = 7\ \frac{15}{16}$ → $254 = 7 * 32 + 30$

$\frac{32}{30} = 1\ \frac{1}{15}$ → $32 = 1 * 30 + 2$

$\frac{30}{2} = 15$ → $30 = 15 * 2 + 0$

mcd = 2

2. mcd(74, 383)

$\frac{383}{74} = 5\ \frac{13}{74}$ → $383 = 5 * 74 + 13$

$\frac{74}{13} = 5\ \frac{9}{13}$ → $74 = 5 * 13 + 9$

$\frac{13}{9} = 1\ \frac{4}{9}$ → $13 = 1 * 9 + 4$

$9 = 4 * 2 + 1$

$2 = 2 * 1 + 0$

$\frac{9}{4} = 2\ \frac{1}{4}$

$\frac{2}{1} = 2$

mcd = 1

3. mcd(7544, 115)

$\frac{7544}{115} = 65\ \frac{3}{5}$ → $7544 = 65 * 115 + 69$

$\frac{115}{69} = 1\ \frac{2}{3}$ → $115 = 1 * 69 + 46$

$69 = 1 * 46 + 23$

$46 = 2 * 23 + 0$

$\frac{69}{46} = 1\ \frac{1}{2}$

$\frac{46}{23} = 2$

mcd = 23

4. mcd(687, 24)

$\frac{687}{24} = 28\ \frac{5}{8}$ → $687 = 28 * 24 + 15$

$\frac{24}{15} = 1\ \frac{3}{5}$ → $24 = 1 * 15 + 9$

$15 = 1 * 9 + 6$

$9 = 1 * 6 + 3$

$6 = 2 * 3 + 0$

$\frac{15}{9} = 1\ \frac{2}{3}$

$\frac{9}{6} = 1\ \frac{1}{2}$

$\frac{6}{3} = 2$

mcd = 3