

1. Delen met 0

$$20/4 = 5 \text{ want } 5 \times 4 = 20$$

$$0/4 = 0 \text{ want } 0 \times 4 = 0$$

$20/0 = \text{k.n.}$ want iets keer 0 kan nooit 20 zijn

$0/0 =$ kan van alles zijn, ieder getal keer 0 is 0

2. staartdelingen

$$12 \ / \ 387520 \ \backslash \ 32293$$

$$\begin{array}{r} 36 \\ \hline 27 \end{array}$$

$$\begin{array}{r} 24 \\ \hline 35 \end{array}$$

$$\begin{array}{r} 24 \\ \hline 112 \end{array}$$

$$\begin{array}{r} 108 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 36 \\ \hline 4 \end{array}$$

$$4 \text{ dus rest } 4$$

conclusie: $387520/12 = 32293$ en $4/12$

$$\frac{387520}{12} = \frac{387516 + 4}{12}$$

$$x - 2 \ / \ x^4 \qquad - 1 \ \backslash \ x^3 + 2x^2 + 4x + 8$$

$$\begin{array}{r} x^4 - 2x^3 \\ \hline 2x^3 \end{array}$$

$$\begin{array}{r} 2x^3 - 4x^2 \\ \hline 4x^2 \end{array}$$

$$\begin{array}{r} 4x^2 - 8x \\ \hline 8x - 16 \end{array}$$

$$\begin{array}{r} 8x - 16 \\ \hline 15 \end{array}$$

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$$\begin{array}{r} 15 \\ \hline \end{array}$$

dus $\frac{x^4 - 1}{x - 2} = x^3 + 2x^2 + 4x + 8 + \frac{15}{x - 2}$

3. $\sqrt{4} = 2$ want $2^2 = 4$ en afspraak de positieve oplossing

$\sqrt{x^2} = |x|$ dus $+x$ als $x \geq 0$ en $-x$ als $x < 0$ want oplossing mag niet negatief