051 1.28282... 3/4E

(a) R, Q, fraccionario, periódico puro

(b) $1.\overline{28}$ =

$$= \frac{128-1}{99} = \frac{127}{99}$$

052 2.325137684... 3/4E

(a) R, I

053 7.4566666... 3/4E

(a) R, Q, fraccionario, periódico mixto.

(b) $7.45\widehat{6}$ =

$$= \frac{7456-745}{900} = \frac{6711}{900} = \frac{2237}{300}$$

054 3.599999... 3/4E

(a) R, Q, fraccionario, periódico mixto.

(b) $3.5\widehat{9}$ =

$$= \frac{359-35}{90} = \frac{324}{90} = \frac{162}{45} = \frac{54}{15} = \frac{18}{5}$$

055 - 0.123333... 3/4E

(a) R, Q, fraccionario, periódico mixto

(b) $0.12\widehat{3}$ =

$$= \frac{123-12}{900} = \frac{111}{900} = \frac{37}{300}$$

$$-0.123333... = \frac{-37}{300}$$

056 0.051515... 3/4E

(a) R, Q, fraccionario, periódico mixto

(b) $0.0\overline{51}$ =

$$= \frac{51-0}{990} = \frac{51}{990} =$$

$$= \frac{17}{330}$$

057 3.63862957349... 3/4E

(a) R, I

058 0.0222... 3/4E

(a) R, Q, fraccionario, periódico mixto.

(b) $0.0\overline{2}$ =

$$= \frac{2-0}{90} = \frac{1}{45}$$

059 Sea P =$23.31\overline{45}$, se pide:
(a) Clasifica dicho número.
(b) Halla la fracción generatriz de dicho número. 3/4E

(a) R, Q, fraccionario, periódico mixto.

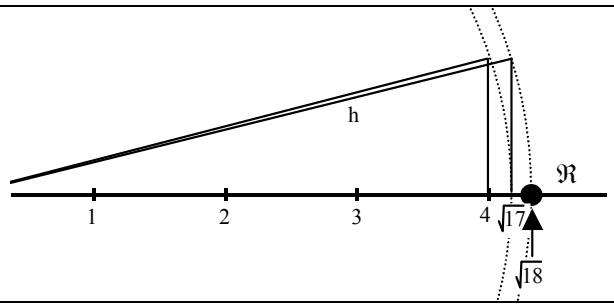
(b) $23.31\overline{45}$ =

$$= \frac{233145-2331}{9900} = \frac{230814}{9900} =$$

$$= \frac{115407}{4950} =$$

$$= \frac{38469}{1650} = \frac{12823}{550}$$

033 $\sqrt{18}$



$h^2 = c^2 + c^2$

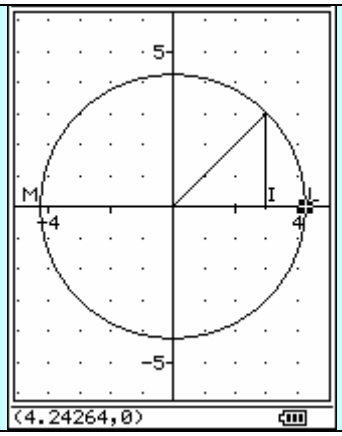
$h^2 = \sqrt{17}^2 + 1^2$

$h^2 = 18$

$h = \pm \sqrt{18} \rightarrow \sqrt{18}$

Veámoslo de otra forma:

ClassPad
300
de CASIO



$h^2 = c^2 + c^2$

$h^2 = 3^2 + 3^2$

$h^2 = 9 + 9$

$h = \pm \sqrt{18} \rightarrow \sqrt{18}$

034 $\sqrt{38}$

Aplicamos el teorema de Pitágoras

$h^2 = c^2 + c^2$

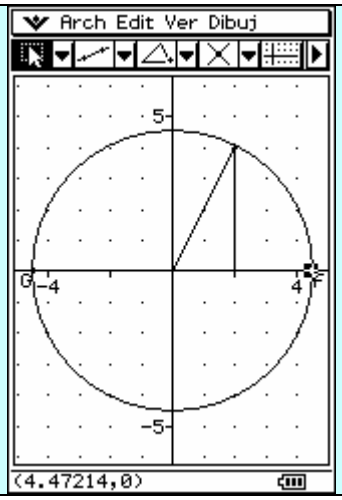
$h^2 = \sqrt{37}^2 + 1^2$

$h^2 = 38$

$h = \pm \sqrt{38} \rightarrow \sqrt{38}$

035 $\sqrt{20}$

ClassPd
300
de CASIO



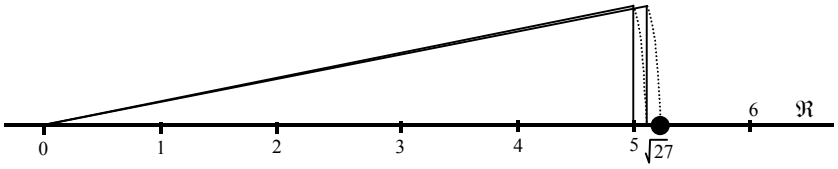
$h^2 = c^2 + c^2$

$h^2 = 2^2 + 4^2$

$h^2 = 4 + 16$

$h = \pm \sqrt{20} \rightarrow \sqrt{20}$

036 $\sqrt{27}$



Aplicamos el teorema de Pitágoras

$h^2 = c^2 + c^2$

$h^2 = \sqrt{26}^2 + 1^2$

$h^2 = 27$

$h = \pm \sqrt{27} \rightarrow \sqrt{27}$