

# Info 1

# 2023 ősz 2. pótpót zh

NÉV\*

NEPTUN KÓD\*

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1.

(A)

(B)

(C)

(D)

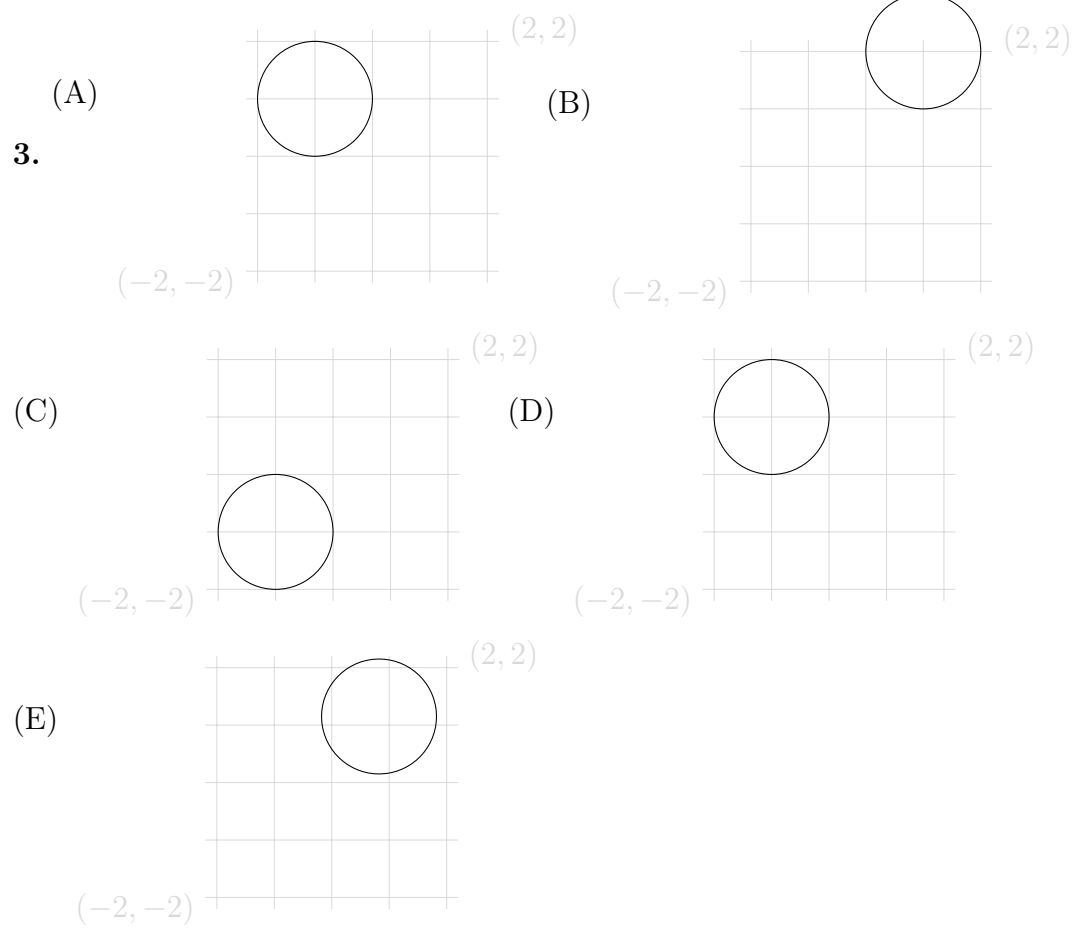
(E) hibás forrás

Forrás	Eredmény
<pre> \begin{tikzpicture}   \draw[very thin, gray!30](-2.2,-2.2)     node[below,left]{\(-2,-2\)}     grid (2.2,2.2) node[above,right]{\\$(2,2)\\$};   \draw (0,0) foreach \x in {0, 72,..., 288}     {-- ++(\x:1) }; \end{tikzpicture} </pre>	B
<pre> \begin{tikzpicture}   \draw[very thin, gray!30](-2.2,-2.2)     node[below,left]{\(-2,-2\)}     grid (2.2,2.2) node[above,right]{\\$(2,2)\\$};   \draw (0,0) foreach \x in {288, 216,..., 0}     {-- ++(\x:1) }; \end{tikzpicture} </pre>	C

<pre> \begin{tikzpicture}   \draw[very thin, gray!30](-2.2,-2.2)     node[below,left]{\(-2,-2\)}     grid (2.2,2.2) node[above,right]{\\$(2,2)\\$};   \foreach \x in {0, 72,..., 288}     {\draw (0,0) -- (\x:1) }; \end{tikzpicture} </pre>	E
<pre> \begin{tikzpicture}   \draw[very thin, gray!30](-2.2,-2.2)     node[below,left]{\(-2,-2\)}     grid (2.2,2.2) node[above,right]{\\$(2,2)\\$};   \foreach \x in {0, 72,..., 288}     {\draw (0,0) -- (\x:1) ;} \end{tikzpicture} </pre>	D
<pre> \begin{tikzpicture}   \draw[very thin, gray!30](-2.2,-2.2)     node[below,left]{\(-2,-2\)}     grid (2.2,2.2) node[above,right]{\\$(2,2)\\$};   \draw (0,0) foreach \x in {288, 216,..., 0}     {-- (\x:1) }; \end{tikzpicture} </pre>	A

2. (A)  $5/2$  (B) 2.5000000000000000 (C) 1 (D) 2

Forrás	Eredmény
$5/2$	A
$5\%2$	C
$n(5/2)$	B
$5//2$	D



Forrás	Eredmény
<pre>\begin{tikzpicture}   \draw[very thin, gray!30](-2.2,-2.2)     node[below,left]{\(-2,-2\)}     grid (2.2,2.2) node[above,right]{\\$(2,2)\\$};   \draw[shift={(0,1)}] (1, 1) circle (1) ; \end{tikzpicture}</pre>	B
<pre>\begin{tikzpicture}   \draw[very thin, gray!30](-2.2,-2.2)     node[below,left]{\(-2,-2\)}     grid (2.2,2.2) node[above,right]{\\$(2,2)\\$};   \draw[xscale=-1] (1, 1) circle (1) ; \end{tikzpicture}</pre>	A

<pre>\begin{tikzpicture}   \draw[very thin, gray!30](-2.2,-2.2)     node[below,left]{\(-2,-2\)}     grid (2.2,2.2) node[above,right]{\\$(2,2)\\$};   \draw[rotate={deg(pi/2)}] (1, 1) circle (1) ; \end{tikzpicture}</pre>	D
<pre>\begin{tikzpicture}   \draw[very thin, gray!30](-2.2,-2.2)     node[below,left]{\(-2,-2\)}     grid (2.2,2.2) node[above,right]{\\$(2,2)\\$};   \draw[rotate=3*pi] (1, 1) circle (1) ; \end{tikzpicture}</pre>	E
<pre>\begin{tikzpicture}   \draw[very thin, gray!30](-2.2,-2.2)     node[below,left]{\(-2,-2\)}     grid (2.2,2.2) node[above,right]{\\$(2,2)\\$};   \draw[scale=-1] (1, 1) circle (1) ; \end{tikzpicture}</pre>	C

4. Legyen  $v = \text{vector}([1, 2, 2])$ ;  $w = \text{vector}([2, 4, 6])$

(A) 22    (B) (4, -2, 0)    (C) 3

Forrás	Eredmény
<code>v.norm()</code>	C
<code>v.dot_product(w)</code>	A
<code>v.cross_product(w)</code>	B

5. Legyen  $v = \text{vector}([1, 2, 2])$ ;  $m = \text{matrix}([[1, 2, 3], [6, 5, 4], [1, 2, 5]])$

(A) (0, 1, 0)    (B) (1, 2, 2)    (C) (11, 24, 15)

Forrás	Eredmény
<code>m*m.solve_right(v)</code>	B
<code>m*v</code>	C
<code>m^(-1)*m</code>	A