

Info 1

Midterm 2 retake, Fall 2023

NAME*

NEPTUN CODE*

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1.

(A)

(-2, -2) (2, 2)

(B)

(-2, -2) (2, 2)

(C)

(-2, -2) (2, 2)

(D)

(-2, -2) (2, 2)

(E) wrong source

Source	Output
<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 {0,60,...,300} { (\x:0.5) -- (\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)\\$}; \foreach \x in {0,60,...,300} {\draw[->] ++(\x:0.5) -- ++(\x:1) ; } \end{tikzpicture} </pre>	C

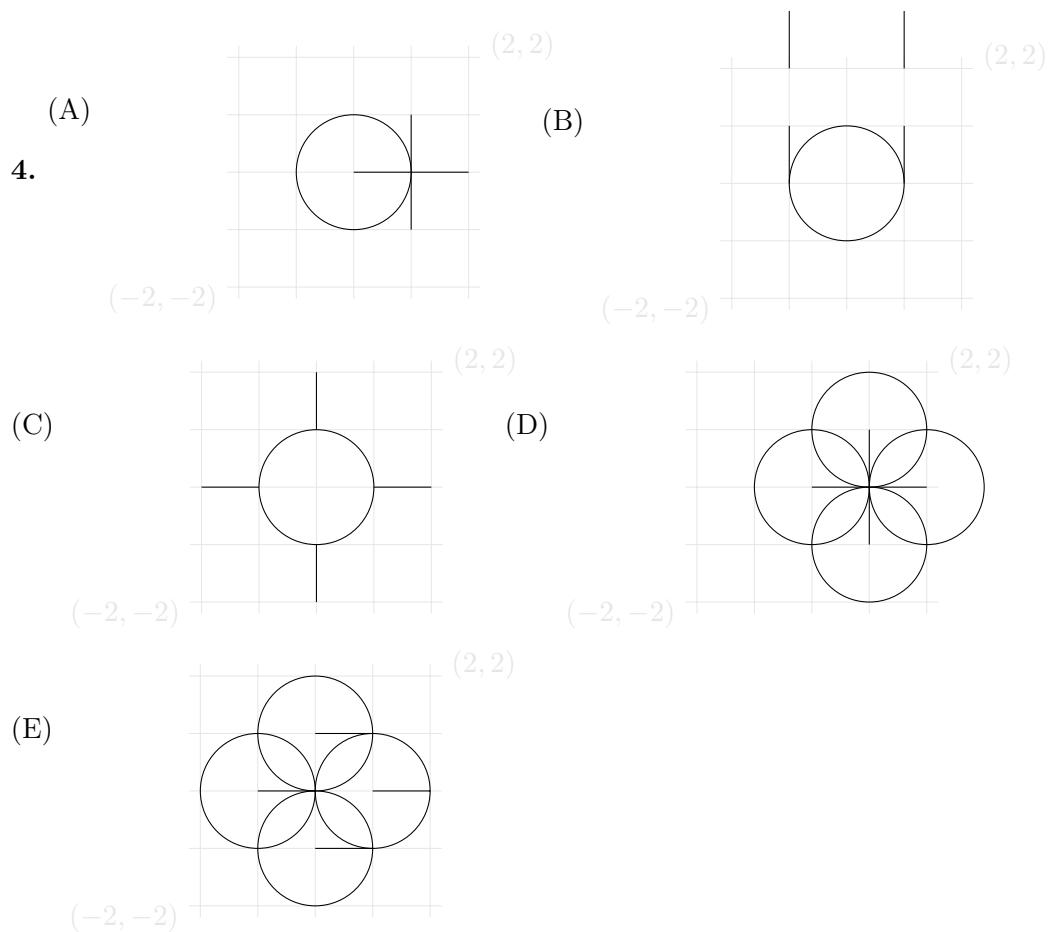
<pre>\begin{tikzpicture} \draw[very thin, gray!30](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \foreach \x in {0,60,...,300} {\draw[->] ++(\x:0.5) -- ++(\x:1) } ; \end{tikzpicture}</pre>	E
<pre>\begin{tikzpicture} \draw[very thin, gray!30](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \foreach \x in {0,60,...,300} {\draw[->] (\x:0.5) -- (\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 {0,60,...,300} { ++(\x:0.25) -- ++(\x:0.5) } ; \end{tikzpicture}</pre>	A

2. (A) <no result> (B) False (C) <wrong source>

Source	Output
a=3	A
3=4	C
3==4	B

3. (A) $[x == -\sqrt{2}, x == \sqrt{2}]$ (B) $[x == -\sqrt{2}]$ (C) <wrong source>

Source	Output
<code>solve(x^2-2,x)</code>	A
<code>assume(x<0); solve(x^2-2,x)</code>	B
<code>suppose(x<0); solve(x^2-2,x)</code>	C



Source	Output
<pre> \begin{tikzpicture} \draw[very thin, gray!20](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \foreach \x in {0,90,...,270} {\draw[shift={(\x:1)}] circle(1) -- (1,0);} \end{tikzpicture} </pre>	E
<pre> \begin{tikzpicture} \draw[very thin, gray!20](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \draw circle(1); \foreach \x in {0,90,...,270} {\draw[rotate around={\x:(1,0)}] (1,0) -- (2,0);} \end{tikzpicture} </pre>	A

<pre> \begin{tikzpicture} \draw[very thin, gray!20](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \draw circle(1); \foreach \x in {0,90,...,270} {\draw[rotate around={90:(\x:1)}] (1,0) -- (2,0);} \end{tikzpicture} </pre>	B
<pre> \begin{tikzpicture} \draw[very thin, gray!20](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \foreach \x in {0,90,...,270} {\draw[rotate around={\x:(1,0)}] circle(1) -- (1,0);} \end{tikzpicture} </pre>	D
<pre> \begin{tikzpicture} \draw[very thin, gray!20](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \draw circle(1); \foreach \x in {0,90,...,270} {\draw[rotate = \x] (1,0) -- (2,0);} \end{tikzpicture} </pre>	C

5. Let $m = \text{matrix}(\begin{bmatrix} 1,2,3 \\ 4,5,6 \\ 7,8,9 \end{bmatrix})$.

- (A) (7, 8, 9) (B) (2, 5, 8) (C) (4, 5, 6) (D) <wrong source>

Source	Output
<code>m.row(2)</code>	A
<code>m.column(1)</code>	B
<code>m.row[1]</code>	D
<code>m[1]</code>	C