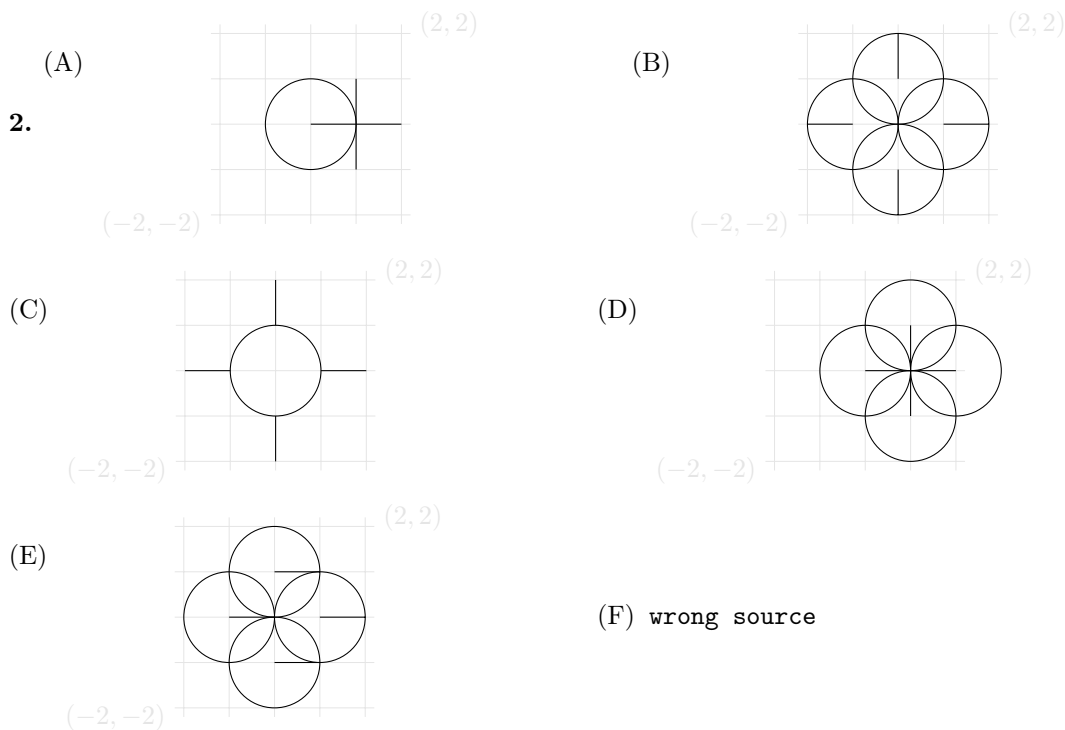


<pre>\begin{tikzpicture} \draw[very thin, gray!30](-3.2,-3.2) node[below,left]{\(-3,-3\)} grid (3.2,3.2) node[above,right]{\\$(3,3)\\$}; \foreach \x in {0,60,...,300} {\draw[->] (\x:1) -- ++(\x:2) }; \end{tikzpicture}</pre>	E
<pre>\begin{tikzpicture} \draw[very thin, gray!30](-3.2,-3.2) node[below,left]{\(-3,-3\)} grid (3.2,3.2) node[above,right]{\\$(3,3)\\$}; \draw[->] (0,0) foreach \x in {0,60,...,300} { ++(\x:0.5) -- ++(\x:1) }; \end{tikzpicture}</pre>	A

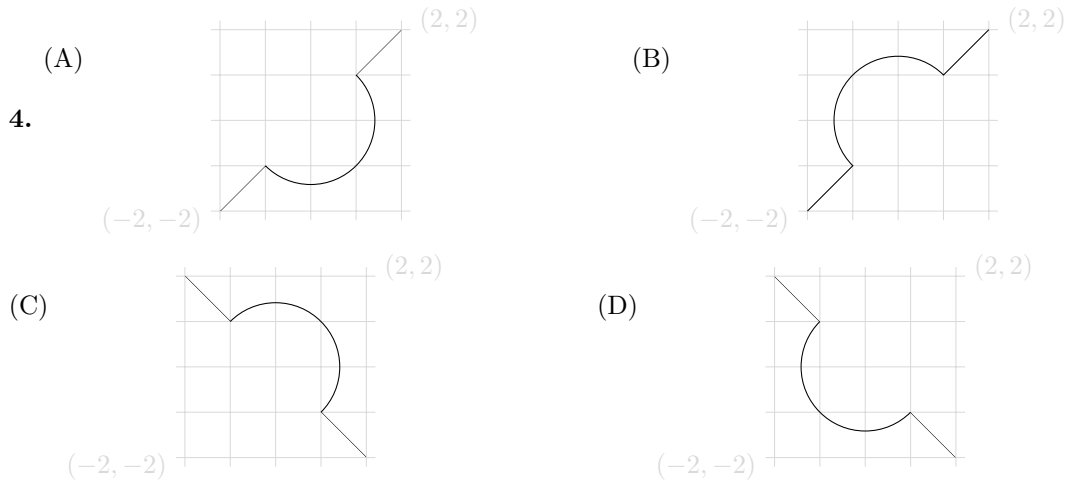


Source	Result
<pre>\begin{tikzpicture} \draw[very thin, gray!20](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \foreach \x in {0,90,...,270} {\draw[shift={(\x:1)}] (0,0) circle(1) -- (1,0); } \end{tikzpicture}</pre>	E

<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)\\$}; \foreach \x in {0,90,...,270} {\draw[rotate = \x] (1,0) circle(1) -- (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)] (2,0) 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 [shift={(\x:1)}] foreach \x in {0,90,...,270} { (0,0) circle(1) -- (1,0) ;} \end{tikzpicture}</pre>	F
<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 (0,0) circle(1); \foreach \x in {0,90,...,270} {\draw[rotate = \x] (1,0) -- (2,0); } \end{tikzpicture}</pre>	C
<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 (0,0) circle(1); \foreach \x in {0,90,...,270} {\draw[rotate around=\x:(1,0)] (1,0) -- (2,0); } \end{tikzpicture}</pre>	A

3. (A) $[x == -\sqrt{2}, x == \sqrt{2}]$ (B) 1.41421356237310 (C) $[x == -\sqrt{2}]$
(D) -1.4142135623730951 (E) <wrong source>

Source	Result
find_root(x ² -2,-2,0)	D
suppose(x<0); solve(x ² -2,x)	E
solve(x ² -2,x)[1].rhs().n()	B
solve(x ² -2,x)	A
assume(x<0); solve(x ² -2,x)	C



Source	Result
<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)\\$} ; \clip (2,-2) -- (-2,2) -- (2,2) --cycle ; \draw (2,-2) -- ++(-1, 1) (0,0) circle({sqrt(2)}) (-2,2) -- ++(1,-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)\\$} ; \clip (2,-2) -- (-2,2) -- (-2,-2) --cycle ; \draw (2,-2) -- ++(-1, 1) (0,0) circle({sqrt(2)}) (-2,2) -- ++(1,-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)\\$} ; \clip (-2,-2) -- ++(4,0) -- ++(0,4) --cycle ; \draw (-2,-2) -- ++(1, 1) (0,0) circle({sqrt(2)}) (1,1) -- ++(1,1); \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 (-2,-2) -- ++(1,1) arc (225:45:{sqrt(2)}) -- ++(1,1); \end{tikzpicture} </pre>	B