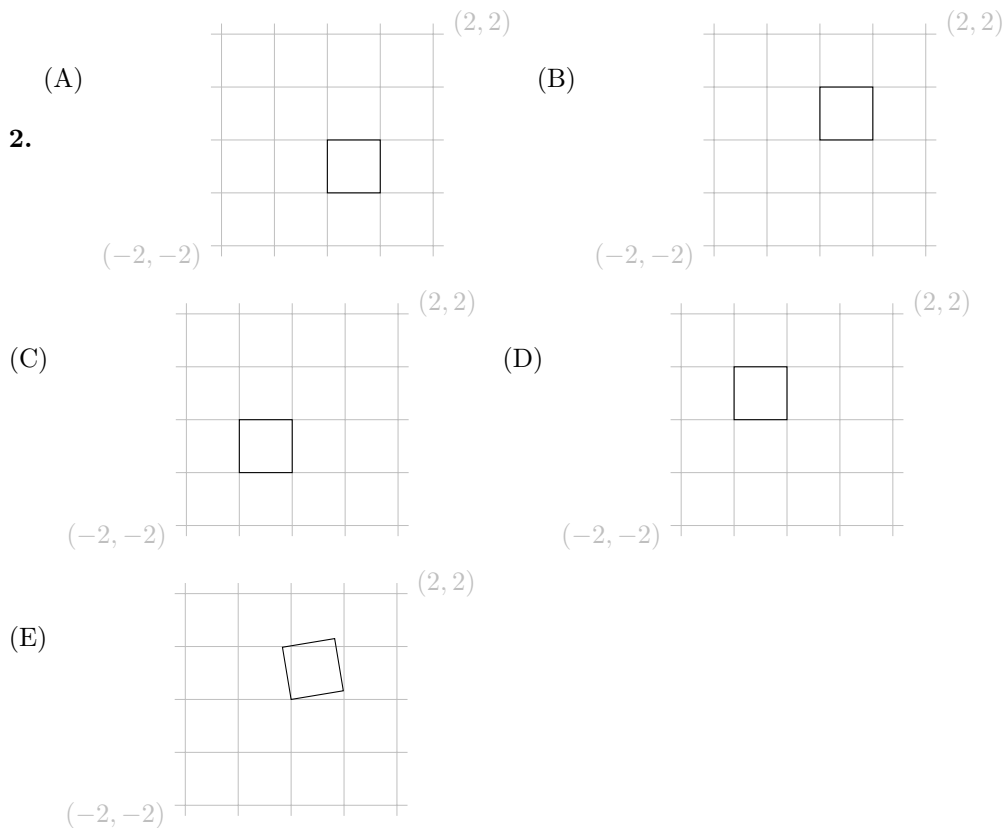




<pre>\begin{tikzpicture} \draw[very thin, gray!50](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \draw (0,0) foreach \x in {0, 60,..., 300} {-- (\x:1) }; \end{tikzpicture}</pre>	A
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Forrás	Eredmény
<pre>\begin{tikzpicture} \draw[very thin, gray!50](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \draw[yscale=-1] (0,0) rectangle (1,1) ; \end{tikzpicture}</pre>	A
<pre>\begin{tikzpicture} \draw[very thin, gray!50](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \draw[rotate=3*pi] (0,0) rectangle (1,1) ; \end{tikzpicture}</pre>	E

<pre>\begin{tikzpicture} \draw[very thin, gray!50](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \draw[shift={(0,1)}] (0,0) rectangle (1,-1) ; \end{tikzpicture}</pre>	B
<pre>\begin{tikzpicture} \draw[very thin, gray!50](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \draw[rotate={deg(pi/2)}] (0,0) rectangle (1,1) ; \end{tikzpicture}</pre>	D
<pre>\begin{tikzpicture} \draw[very thin, gray!50](-2.2,-2.2) node[below,left]{\(-2,-2\)} grid (2.2,2.2) node[above,right]{\\$(2,2)\\$}; \draw[scale=-1] (0,0) rectangle (1,1) ; \end{tikzpicture}</pre>	C

3. (A) 4 (B)  $1/2$  (C) 1 (D) 2

Forrás	Eredmény
$a = \text{mod}(5,3); 1/a$	D
$a = 5 \% 3; a^2$	A
$a = 5 \% 3; 1/a$	B
$a = \text{mod}(5,3); a^2$	C

4. (A)  $y^3+x^2$  (B)  $y^3+y^2$  (C)  $x^3+x^2$

Forrás	Eredmény
$\text{var}('y'); (x^2+y^3).\text{subs}(x=y).\text{subs}(y=x)$	C
$\text{var}('y'); x^2+y^3.\text{subs}(x=y)$	A
$\text{var}('y'); (x^2+y^3).\text{subs}(x=y)$	B

5. (A)  $y^2 + 2$  (B)  $(y - 1.41421356237310*I) * (y + 1.41421356237310*I)$   
(C)  $(y + 1) * (y + 2)$

Forrás	Eredmény
$y = \text{polygen}(CC, 'y'); \text{print}(\text{factor}(y^2 + 2))$	B
$y = \text{polygen}(GF(3), 'y'); \text{print}(\text{factor}(y^2 + 2))$	C
$y = \text{polygen}(QQ, 'y'); \text{print}(\text{factor}(y^2 + 2))$	A