Informatics 1 Midterm 1, Fall 2024

NAME* NEPTUN CODE*

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1. (A) It is 3% or more (B) It is 3 (C) `wrong source`

Source	Result
`It is 3% or more`	
`It is 3\% or more`	

2. (A) {x} (B) x (C) `wrong source`

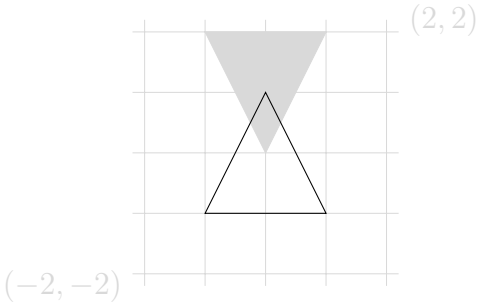
Source	Result
`{{{x}}}`	
`{\{x}}`	
`\{{x}\}`	

3. (A) $(\frac{x^2}{\sqrt{y^3}})^4$ (B) $\left(\frac{x^2}{\sqrt{y^3}}\right)^4$ (C) $\left(\frac{x\sqrt{y^3}}{2}\right)^4$ (D) $\left(\frac{x^{y^3}}{\sqrt{2}}\right)^4$ (E) `wrong source`

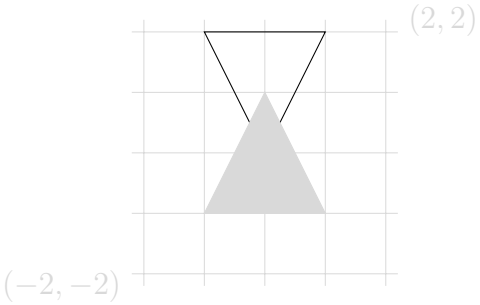
Source	Result
`$\left(\frac{x^{\sqrt{y^3}}}2\right)^4$`	
`$(\frac{x^2}{\sqrt{y^3}})^4$`	
`$\left(\frac{x^2}{\sqrt{y^3}}\right)^4$`	
`$\left(\frac{x^{y^3}}{\sqrt2}\right)^4$`	
`$\left(\frac{x^2}{\sqrt{y^3}})^4$`	

4.

(A)



(B)



(C)

(D)

(E) `wrong source`

Source	Result

`\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 (-1,-1) -- (0, 1) -- (1,-1) -- cycle;`
` \draw[fill, color=gray!30] (-1,2) -- (0, 0) -- (1,2) -- cycle;`
`\end{tikzpicture}`	

`\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[fill, color=gray!30] (-1,2) -- (0, 0) -- (1,2) -- cycle;`
` \draw (-1,-1) -- (0, 1) -- (1,-1) -- cycle;`
`\end{tikzpicture}`	

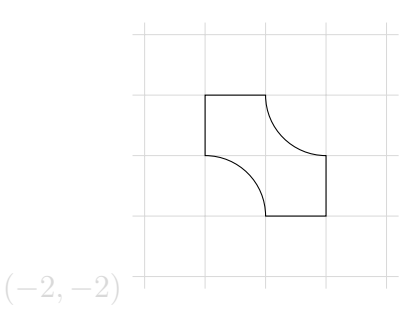
`\begin{tikzpicture}`
` \draw[very thin, gray!30](-2.2,-2.2) node[below,left]{$(-2,-2)$}`
`  grid (2.2,2.2) node[above,right]{$(2,2)$};`
` \draw (-1,2) -- (0, 0) -- (1,2) -- cycle;`
` \draw[fill, color=gray!30] (-1,-1) -- (0, 1) -- (1,-1) -- cycle;`
`\end{tikzpicture}`	

```
\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[fill, color=gray!30] (-1,2) -- (0, 0) -- (1,2) -- cycle;
 \clip (-1,-1) -- (0, 1) -- (1,-1) -- cycle;
\end{tikzpicture}
```

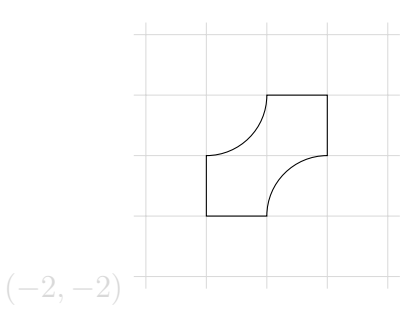
```
\begin{tikzpicture}
 \draw[very thin, gray!30](-2.2,-2.2) node[below,left]{$(-2,-2)$}
  grid (2.2,2.2) node[above,right]{$(2,2)$};
 \draw[fill, color=gray!30] (-1,2) -- (0:0:0) -- (1,2) -- cycle;
 \clip (-1,-1) -- (0, 1) -- (1,-1) -- cycle;
\end{tikzpicture}
```

5.

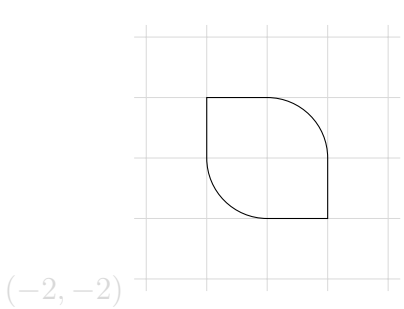
(A)



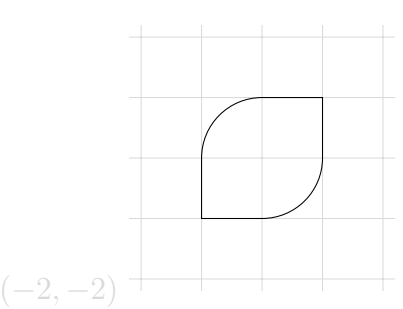
(B)



(C)



(D)



(E) `wrong source`

Source	Result

```
\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 (1,0) arc (0:90:1) -- ++(-1, 0) -- ++(0,-1)
    arc (180:270:1) -- ++(1,0) -- cycle;
\end{tikzpicture}
```

```
\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 (1,0) arc (270:180:1) -- ++(-1, 0) -- ++(0,-1)
    arc (90:0:1) -- ++(1,0) -- cycle;
\end{tikzpicture}
```

```
\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 (1,0) arc (90:180:1) -- ++(-1,0) -- ++(0,1)
    arc (270:360:1) -- ++(1,0) -- cycle;
\end{tikzpicture}
```

```
\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 (1,0) arc (360:270:1) -- ++(-1,0) -- ++(0,1)
    arc (180:90:1) -- ++(1,0) -- cycle;
\end{tikzpicture}
```

```
\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 (1,0) -- (270:180:1) arc ++(-1, 0) -- ++(0,-1)
    arc (90:0:1) -- ++(1,0) -- cycle;
\end{tikzpicture}
```