8

$$
n A=360
$$

The measure $A$, in degrees, of an exterior angle of a regular polygon is related to the number of sides, $n$, of the polygon by the formula above. If the measure of an exterior angle of a regular polygon is greater than $50^{\circ}$ what is the greatest number of sides it can have?
A) 5
B) 6
C) 7
D) 8


| megrune of <br> extぬ <br> in a regular <br> polygon | $\begin{gathered} A=\frac{360}{} \\ 72=\frac{36 \theta}{360} \quad n=5 \end{gathered}$ <br> 1) <br> If the measure of an ext angle of a regular polygon is 72 degrees, how many sides does it have? |
| :---: | :---: |

9
The graph of a line in the $x y$-plane has slope 2 and contains the point $(1,8)$. The graph of a second line passes through the points $(1,2)$ and $(2,1)$. If the two lines intersect at the point $(a, b)$, what is the value of $a+b$ ?
A) 4
B) 3

$$
-1+4=3
$$

C) -1
D) -4

$l:$ passes $(3,1) \notin(1,3)$
$m_{i}$ slope of $-2 \neq$ passes $(0,6)$
Find the intersection


## 10

Which of the following equations has a graph in the $x y$-plane for which $y$ is always greater than or equal
to -1 ?
$y=|x|-2$
$y=x^{2}-2$
(C) $y=(x-2)^{2}$
D) $y=x^{3}-2$

## 11

$\begin{array}{ll}\text { Which of the following complex numbers is } & i^{2}=-1\end{array}$
A) $\frac{3}{8}-\frac{5 i}{2}$
$\frac{(3-5 i)(8-2 i)}{(8+2 i)(8-2 i)}=\frac{24-6 i-40 i+10 i^{2}}{64-46+4 i-4 i^{2}}$
(C) $\frac{7}{34}-\frac{23 i}{34}$
D) $\frac{7}{34}+\frac{23 i}{34}$

B) $\frac{3}{8}+\frac{5 i}{2}$

