8

$$nA = 360$$

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° what is the greatest number of sides it can have?

A) 5

$$n = \frac{360}{A} \rightarrow \frac{360}{50} = 7.2$$

measure
ext &
in a regular
Polyapn

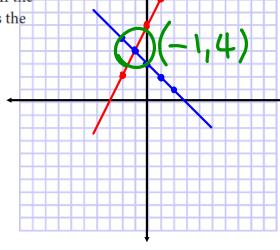
 $\begin{array}{r}
 A = \frac{360}{360} \\
 \hline
 360 & 1 = 5
 \end{array}$

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 xy-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?

-144=3

- A) 4
- **B**) 3
 - 3) 1
- D) -4



1: passes (3,1) \$ (1,3)

m: slope of -2 \$ passes (0,6)

Find the intersection

(2,2)

10

Which of the following equations has a graph in the xy-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

Which of the following complex numbers is equivalent to $\frac{3-5i}{8+2i}$? (Note: $i=\sqrt{-1}$)

A)
$$\frac{3}{8} - \frac{5i}{2}$$

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

A)
$$\frac{3}{8} - \frac{5i}{2}$$

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

(3-5i) (8-2i) $= 24 - 6i - 40i + 10i$

(8+2i) (8-2i) $= 64 - 46i + 10i$

(9) $\frac{7}{34} - \frac{23i}{34}$

(9) $\frac{7}{34} - \frac{23i}{34}$

(10) $\frac{7}{34} - \frac{23i}{34}$

(11) $\frac{7}{34} - \frac{23i}{34}$

$$\frac{7}{34} - \frac{23i}{34}$$

D)
$$\frac{7}{34} + \frac{23i}{34}$$

$$=\frac{24-46i-10}{4}$$

$$\frac{7}{34} - \frac{23i}{34} = \frac{14}{68} - \frac{46i}{68}$$