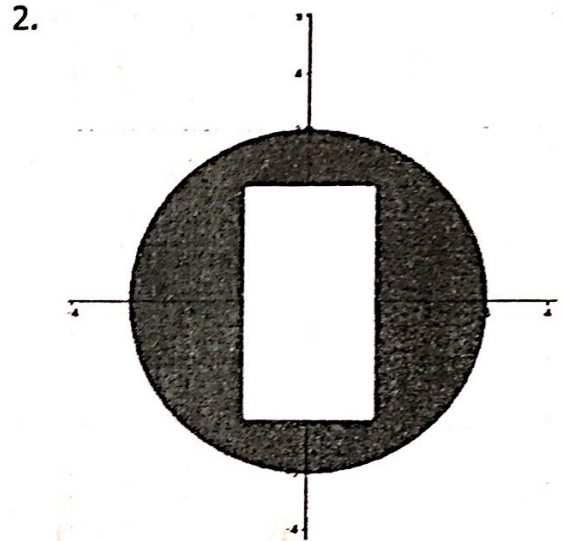
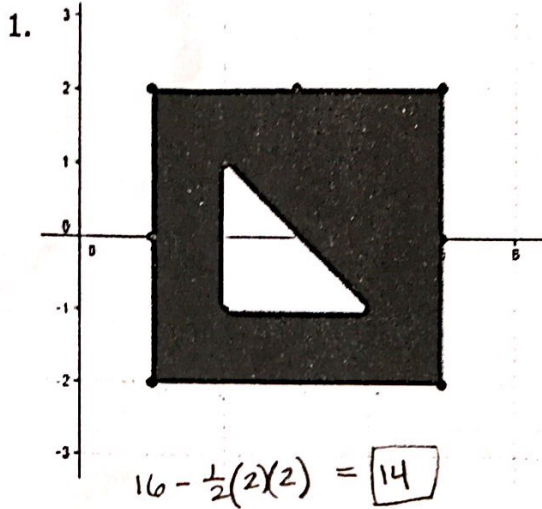
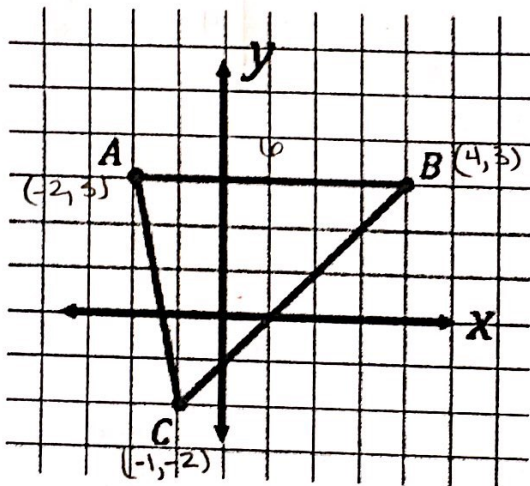


Find the area of the shaded regions.



3. Given the figure below, calculate the perimeter and the area.



$$\pi r^2 - \text{rectangle}$$

$$= \pi(3)^2 - (2)(4)$$

$$= \boxed{9\pi - 8}$$

$$\text{Area : } \frac{1}{2}bh = \frac{1}{2}(6)(5) = \boxed{15}$$

Perimeter : $AB = 6$

$$AC = \sqrt{(-1+2)^2 + (-2-3)^2} = \sqrt{1+25} = \sqrt{26}$$

$$CB = \sqrt{(-1-4)^2 + (-2-3)^2} = \sqrt{25+25}$$

$$= \sqrt{50} = 5\sqrt{2}$$

$$6 + \sqrt{26} + 5\sqrt{2}$$

$$= \boxed{18.17}$$

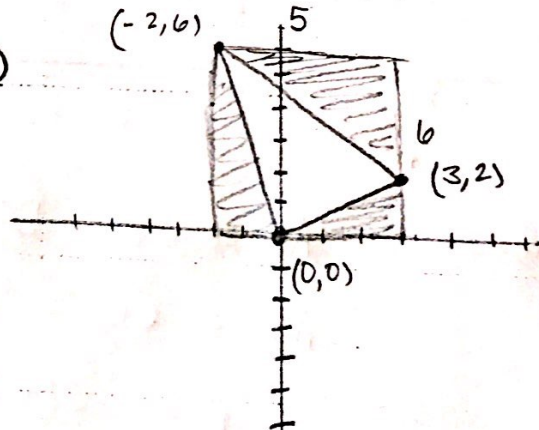
4. Find the area of the triangle with the following vertices: A(0, 0), B(3, 2), C(-2, 6)

$$\text{Area} = \text{Rectangle} - \Delta's$$

$$= (5)(6) - \frac{(2)(6)}{2} - \frac{(3)(2)}{2} - \frac{(5)(4)}{2}$$

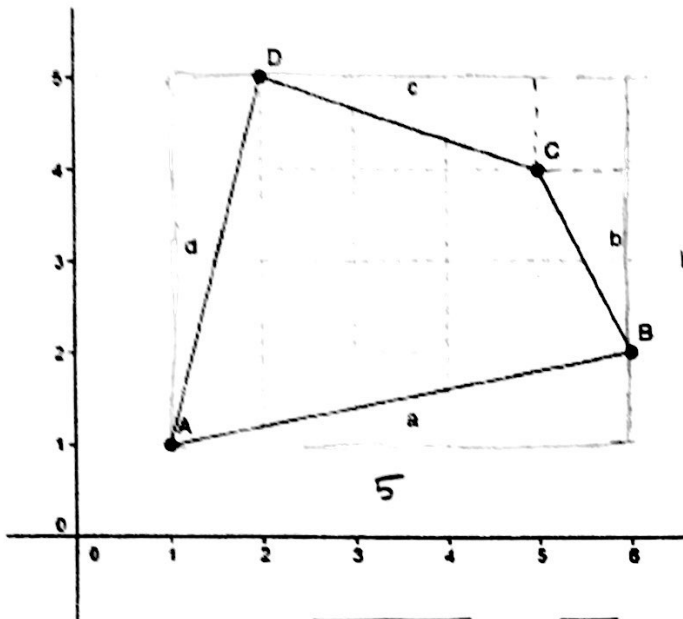
$$= 30 - 6 - 3 - 10$$

$$= \boxed{11}$$



Calculate the area and perimeter of the following two figures.

5.



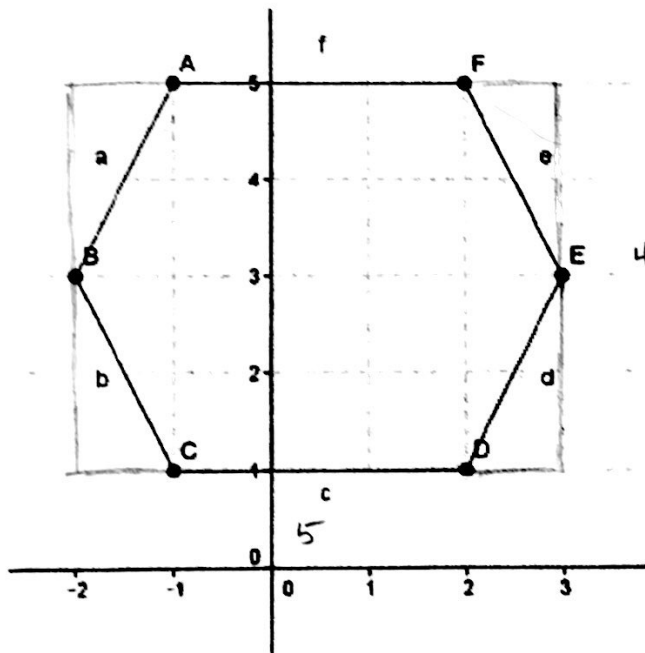
$$\begin{aligned}
 \text{Area} &= \text{Rectangle} - \Delta\text{'s} - \text{Square} \\
 &= (5 \times 4) - \frac{(4 \times 1)}{2} - \frac{(5 \times 1)}{2} - \frac{(2 \times 1)}{2} \\
 &\quad - \frac{(3 \times 1)}{2} - (1 \times 1) \\
 &= 20 - 2 - 2.5 - 1 - 1.5 - 1 \\
 &= \boxed{12}
 \end{aligned}$$

Perimeter :

$$\begin{aligned}
 AB &= \sqrt{5^2 + 1^2} = \sqrt{26} \\
 BC &= \sqrt{2^2 + 1^2} = \sqrt{5} \\
 CD &= \sqrt{3^2 + 1^2} = \sqrt{10} \\
 DA &= \sqrt{4^2 + 1^2} = \sqrt{17}
 \end{aligned}$$

$$\begin{aligned}
 P &= \sqrt{26} + \sqrt{5} + \sqrt{10} + \sqrt{17} \\
 &= \boxed{14.62}
 \end{aligned}$$

6.



$$\begin{aligned}
 \text{Area} &= \text{Rectangle} - \Delta\text{'s} \\
 &= (5 \times 4) - 4 \left[\frac{(2 \times 1)}{2} \right] \\
 &= 20 - 4 = \boxed{16}
 \end{aligned}$$

Perimeter :

$$AB = BC = DE = EF = \sqrt{2^2 + 1^2} = \sqrt{5}$$

$$AF = CD = 3$$

$$P = 2(3) + 4\sqrt{5} = \boxed{6 + 4\sqrt{5}} = \boxed{14.94}$$