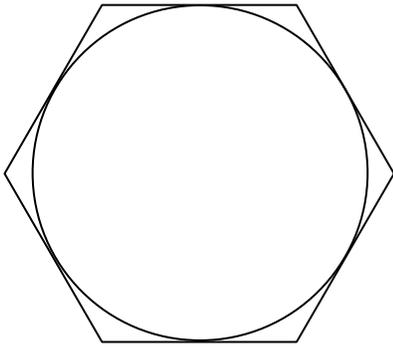


Geometry Review Worksheet

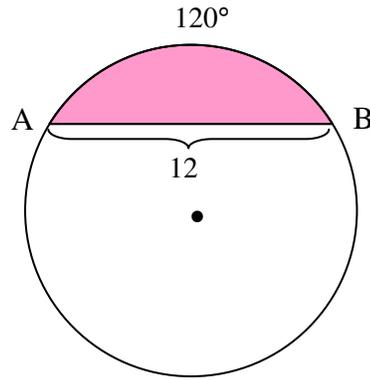
(1) Find the area and circumference of a circle whose radius is $5\sqrt{2}$.

(2) Find the area between a circle and an inscribed equilateral triangle if each side of the triangle measures 6.

(3) Find the area of a circle below if each side of the hexagon is 6.



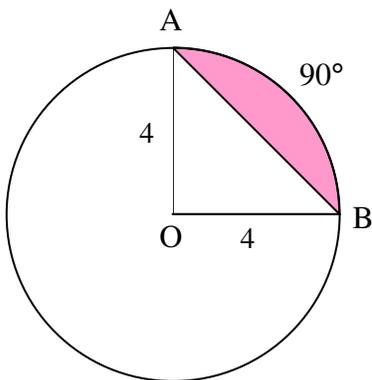
(4) Given the figure below, **Find:** the length of \widehat{AB} and the area of shaded region.



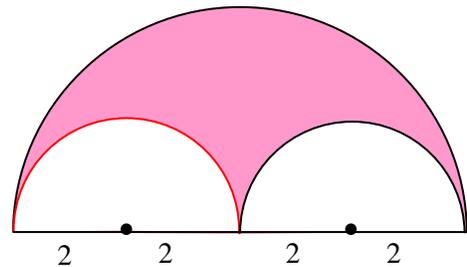
(5) In a circle whose radius is 6, a sector has an area of 15π . Find the length of the arc of the sector.

(6) The lengths of the sides of a triangle are 4, 5, and 7. The shortest side of a similar triangle is 10. Find the perimeter of the second triangle.

(7) Find the area of the shaded region in the figure below.

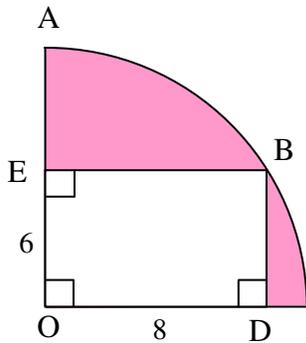


(8) Find the area of the shaded region in the figure below.

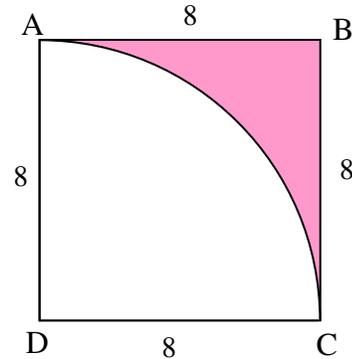


Geometry Review Worksheet

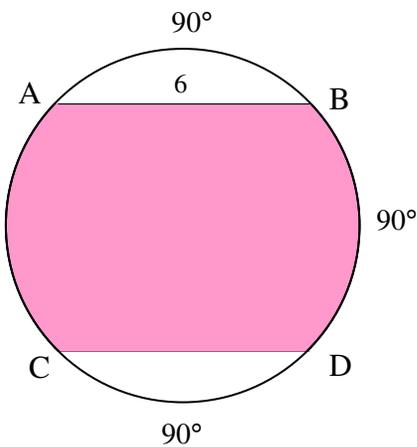
(9) Find the **sum** of the areas of the shaded regions in the figure below.



(10) Find the area of the shaded region in the square below if D is the center of \widehat{AC} .

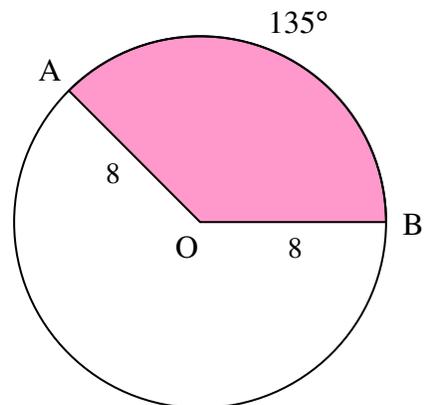


(11) Find the area of the shaded region in the figure below if $AB = 6$.



(13) .

(14) Find the area of the shaded region and the length of arc \widehat{AB} in the figure below.



Geometry Review Worksheet

Answers

(1) area = 50π , circumference = $10\sqrt{2}\pi$

(2) area between = $12\pi - 9\sqrt{3}$

(3) 27π

(4) arc length = $\frac{8\sqrt{3}\pi}{3}$, area shaded region = $16\pi - 12\sqrt{3}$

(5) 5π

(6) 40

(7) $4\pi - 8$

(8) 4π

Geometry Review Worksheet

Answers

(9) $25\pi - 48$

(10) $64 - 16\pi$

(11) $9\pi + 18$

(12) $24\sqrt{2} - 8\pi$

(14) area = 24π , arc length = 6π