

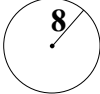



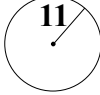





Name: _____

Sector Area

The formula for the area of a circle is: $A = \pi r^2$. Determine the area of each circle.

<p>EXAMPLE</p>  <p>$A = \pi r^2$ $A = \pi(11)^2$ $A = (3.14)(121)$ $A = \boxed{379.94}$</p>	<p>1. </p>	<p>2. </p>	<p>3. </p>
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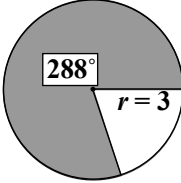
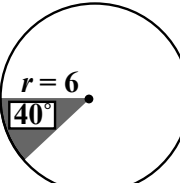
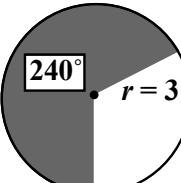
Determine the area of each circle in terms of pi (leave "π" - do not use 3.14).

<p>EXAMPLE</p>  <p>$A = \pi r^2$ $A = \pi(11)^2$ $A = \boxed{121\pi}$</p>	<p>4. </p>	<p>5. </p>
<p>6. </p>	<p>7. </p>	<p>8. </p>

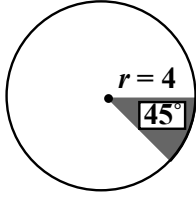
A sector is a part of the circle that is created by two radii. It looks like a slice cut out of the circle. The area of the sector represents a fractional part of the total area of the circle. Since the total degree measure of a circle is 360°, the portion of a circle created by a sector is shown by the fraction $\frac{\text{angle}}{360}$.

$$\text{Sector Area} = \left(\frac{\text{angle}}{360}\right) \pi r^2$$

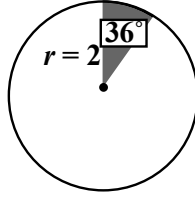
Determine the area of the sector in terms of pi.

<p>EXAMPLE</p>  <p>$\text{Sector Area} = \left(\frac{\text{angle}}{360}\right) \pi r^2$ $\text{Sector Area} = \left(\frac{288}{360}\right) \pi(3)^2$ <i>Reduce the fraction:</i> $\frac{288 \div 4}{360 \div 4} = \frac{72 \div 9}{90 \div 9} = \frac{8 \div 2}{10 \div 2} = \frac{4}{5}$ $A = \left(\frac{4}{5}\right) \pi(3)^2$ $A = \left(\frac{4}{5}\right) 9\pi = \left(\frac{4}{5}\right) \left(\frac{9}{1}\right) \pi$ $A = \boxed{\frac{36}{5}\pi}$ or $\boxed{7.2\pi}$</p>	<p>9. </p>	<p>10. </p>
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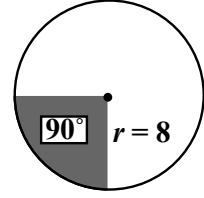
11.



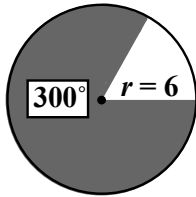
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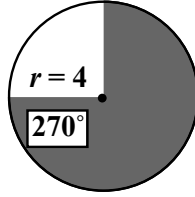
13.



14.



15.



16.

