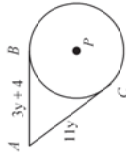


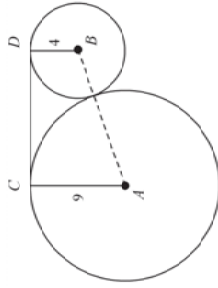
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60. Find the volume of a sphere with diameter 30 ft. Give your answer in terms of π .
61. Find the surface area of a sphere with volume $288\pi \text{ m}^3$. Give your answer in terms of π .
62. \overline{AB} and \overline{AC} are tangent to $\odot P$. Find AB .



63. $\odot A$ has radius 9, $\odot B$ has radius 4, and \overline{CD} is a common tangent. What is CD ? (*Hint: Draw a perpendicular segment BE from B to AC .*)



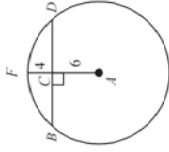
64. Find $m\widehat{CFB}$.



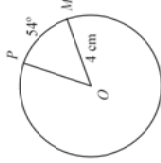
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65. Find BD .

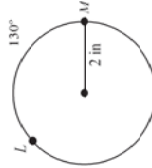


66. Find the area of sector POM . Give your answer in terms of π .



67. Jenny's birthday cake is circular and has a 30 cm radius. Her slice creates an arc with a central angle of 120° . What is the area of Jenny's slice of cake? Give your answer in terms of π .

68. Find the arc length of an arc with measure 130° in a circle with radius 2 in. Round to the nearest tenth.

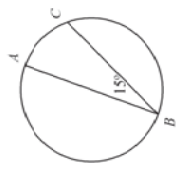


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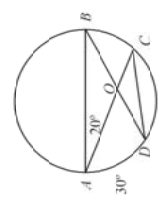
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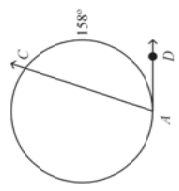
69. Find $m\widehat{AC}$.



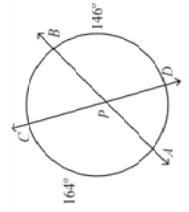
70. A wheel from a motor has springs arranged as in the figure. Find $m\angle DOC$.



71. Find $m\angle CAD$.

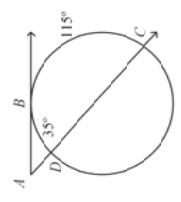


72. Find $m\angle BPD$.

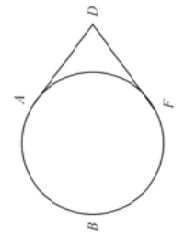


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73. Find $m\angle A$.



74. Two of the muscles that control eye movement are attached to the eyeball and intersect behind the eye as shown. If $m(\text{arc})ABF = 300^\circ$, what is $m\angle ADF$?



75. Given $m\angle AFB = 25^\circ$, $m\angle BAF = 105^\circ$, and $m\angle AGD = 86^\circ$, find $m\widehat{AC}$.

