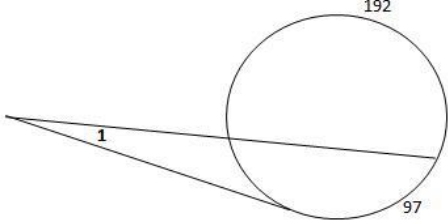
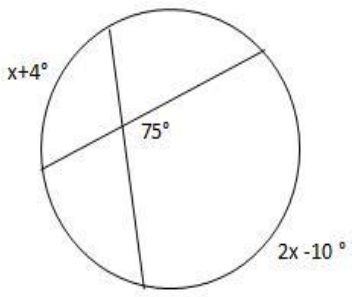
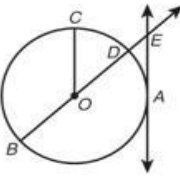
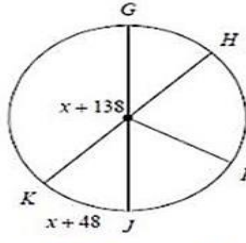
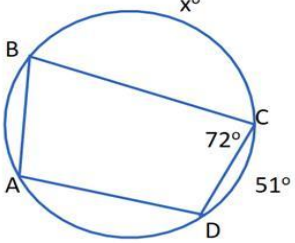
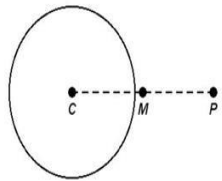
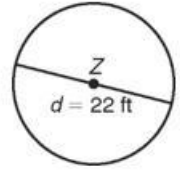


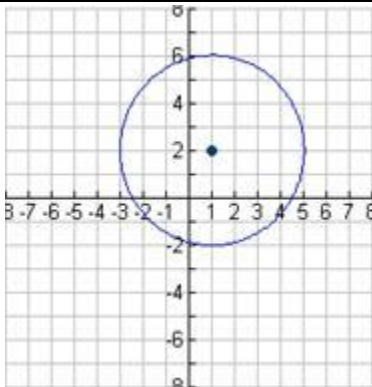
<p>1.</p>  <p>What is the value of angle one?</p>	<p>2.</p>  <p>Find the value of x</p>
<p>3. Which is a tangent?</p> 	<p>4.</p>  <p>Find the Measure of the arc <math>\widehat{KG}</math>.</p>
<p>5.</p>  <p>Find the measure of arc BC.</p>	<p>6. Manuela is constructing a tangent line to circle C from point P. She has already drawn <math>\overline{CP}</math> and found the midpoint M, as shown below. Where should Manuela place the point of her compass to continue the construction?</p> 
<p>7. The altitude of a pyramid is _____ to the base.</p> <p>A. Congruent          B. Proportional          C. Perpendicular          D. Parallel</p>	<p>8. Find the area of circle Z in terms of <math>\pi</math></p> 

9. Which figure could **NOT** represent the Cross-section of a cylinder?

- A. A circle
- B. A semicircle
- C. An ellipse
- D. A rectangle

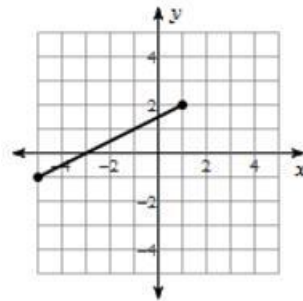
10. Find the center and radius of a circle with the Equation.  $x^2 + y^2 + 6x - 8y + 16 = 0$

11.



What is the equation of the graph?

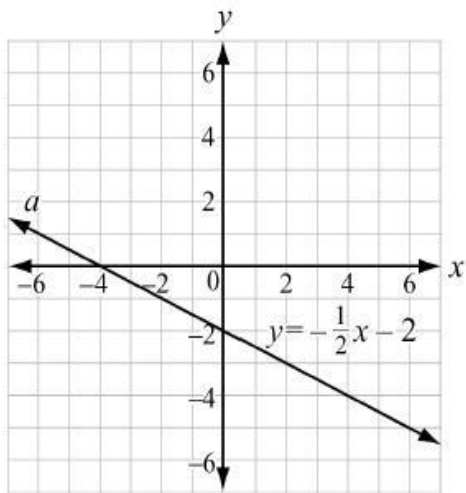
12.



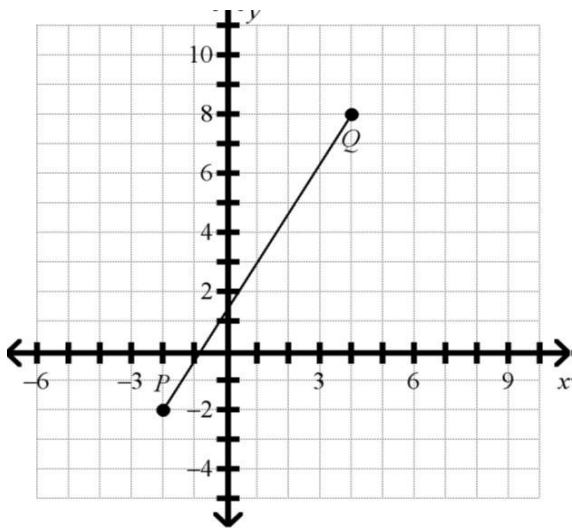
Find the distance between each pair of points.

13. Prove that  $A(-2, 3)$ ,  $B(4, 3)$ ,  $C(2, -2)$  and  $D(-4, -2)$  are the vertices of a *parallelogram*.

14. An equation of line  $a$  is  $y = -\frac{1}{2}x - 2$ . Which is an equation of the line that is perpendicular to line  $a$  and passes through point  $(-4, 0)$ ?



- 15.



What is the midpoint of PQ?

16. The coordinates of endpoint  $D$  in  $CD$  are at  $D(5, 5)$ . If the midpoint of the segment is at  $M(1, -1)$ , what are the coordinates of point  $C$ ?

17. Find the *perimeter* of  $\triangle ABC$  where  $A(1, 1)$ ,  $B(4, 4)$ ,  $C(6, 2)$  are the vertices of a right triangle. Round to the nearest tenth if needed.
18. The volume of a solid gold statue can be approximated as  $1000 \text{ cm}^3$ . If the density of gold is about  $20 \text{ g/cm}^3$ , what is the mass of the statue?
- 19.

	Owens a Car	Does Not Own a Car	TOTAL
Junior	6	10	16
Senior	12	8	20
TOTAL	18	18	36

Use the table to find the probability that the student is a Junior and does NOT own a car?

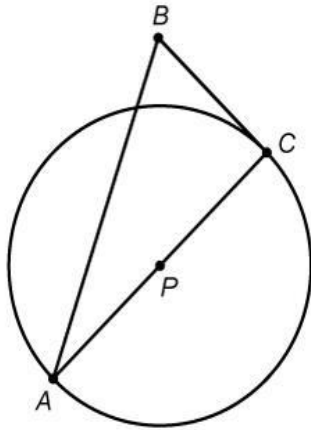
- A.  $5/18$   
 B.  $1/2$   
 C.  $5/9$   
 D.  $5/8$
- 20.

1	2	4	5	7	9
10	11	13	16	18	19

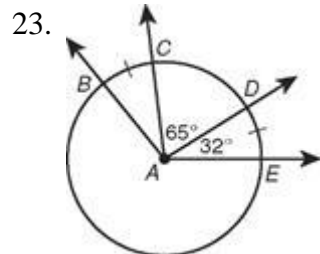
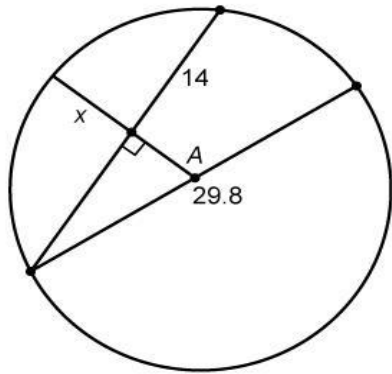
You shuffle the cards shown above and choose one at random. What is the probability that you choose a gray card or an even number?

- A.  $35/144$   
 B.  $12/19$   
 C.  $5/6$   
 D. 1

21.  $BC$  is tangent to circle  $P$  at point  $C$ .  $\overline{AB}$  is 10 units long.  $\overline{BC}$  is 6 units long. How long is  $\overline{AP}$ ?

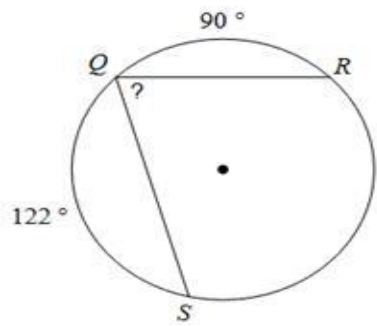


22. Given circle  $A$  with diameter 29.8, find the length of the given segment  $x$ , round your answer to the nearest tenth.



Use circle  $A$  to find the measure of arc  $BE$ .

24.



Find the  $m\angle SQR$