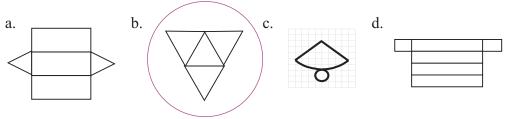
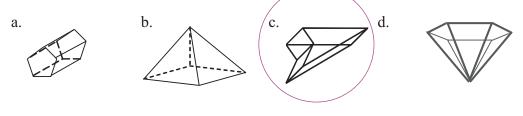
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	MOQUIE	e Test 🗡		Module 10
Fill	ĸ	vith one of the follo z-axis y-axis ider sphere	wing words: prism pyrami dodecahedron	d cone icosahedron
1.	A	is a solid with	h one circular base.	
2.	The set of all p	points equidistant fro	m a given point is a((n)sphere
3.	A polyhedron with two congruent parallel bases is a(n) prism			
4.	The point (-3, 0) is on the <i>x</i> -axis			
5.	A Platonic solid with 12 faces is a(n) dodecahedron			
Cir	cle the correct	answer for each pro	oblem.	
6.	Which ordered pair is located in Quadrant II?			
	a. (-2, -6)	b. (-2, 6) (-2, 6)	c. (2, -6)	d. (2, 6)
7.	What is the distance from point <i>F</i> to point <i>G</i> ? $\begin{array}{c} F & G \\ \hline -10 & -8 & -6 & -4 & -2 & 0 \end{array}$			+ + + + + + + + + + + + + + + + + + +
	a6	b5	c. 5	d. 6 6
8.	Which is a cyl	inder?		\wedge
	a.	b.	c.	d.

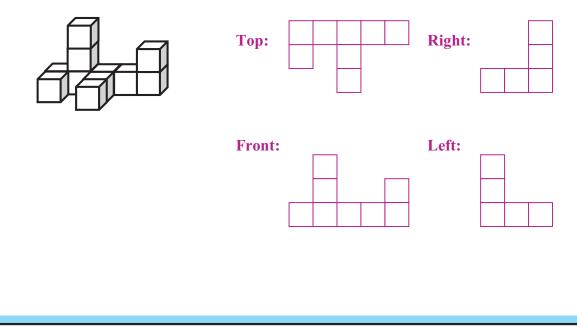
- 9. The slope of line h is -3. What is the slope of any line perpendicular to line h? b. $-\frac{1}{3}$ a. -3 c. 3
 - d. $\frac{1}{3}$ $\frac{1}{3}$
- Which is the net of a pyramid? 10.



Which polyhedron is nonconvex? 11.



12. Draw the front, top, right, and left side views.

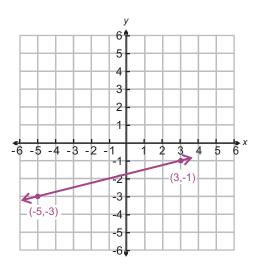


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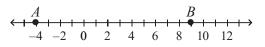
13. Graph the line with points (-5, -3) and (3, -1).Find the slope of the line and the slope of any line perpendicular to it.

Slope of line: $\frac{1}{4}$

Slope of any perpendicular line: -4



14. Explain how to find the coordinate of the midpoint of \overline{AB} .

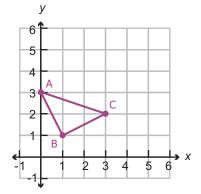


First, find the sum of the coordinates of A and B: -4 + 9 = 5. Then divide this sum by two: $\frac{5}{2} = 2\frac{1}{2}$. The coordinate of the midpoint of \overline{AB} is $2\frac{1}{2}$.

15. Plot the points A(0, 3), B(1, 1), and C(3, 2). Show how to use slope and the distance between points to classify the triangle.

The slope of \overline{AB} is -2. The slope \overline{BC} is $\frac{1}{2}$.

Because the slopes are opposite reciprocals, the segments are perpendicular, and the angle is a right angle. The triangle is a right triangle.



Use the Pythagorean Theorem to find the length of \overline{AB} : $1^2 + 2^2 = c^2$, $5 = c^2$, $c = \sqrt{5}$. Then, find the length of \overline{BC} : $1^2 + 2^2 = c^2$, $5 = c^2$, $c = \sqrt{5}$. Because the legs are congruent, the triangle is a right isosceles triangle.

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