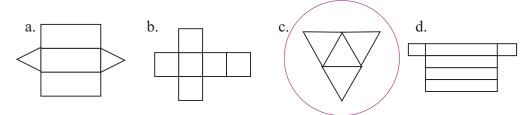
Module Test B Module 10 Fill in the blanks with one of the following words: x-axis prism pyramid cone cylinder sphere dodecahedron icosahedron 1. x_{in} is the set of all points equidistant from a given point. 1. x_{in} is the set of all points equidistant from a given point. 1. x_{in} is a solid with two circular bases. 2. $A(n)$ is a solid with two circular bases. 2. $A(n)$ is a solid with two circular bases. 3. A polyhedron with one base and triangular lateral faces is $a(n)$ 4. The point $(0, -3)$ is on the y -axis . 5. A Platonic solid with 20 faces is $a(n)$ Directe the correct answer for each problem. 6. Which ordered pair is located in Quadrant IV? $a. (-2, -6)$ $b. (-2, 6)$ $c. (2, -6)$ 0. O c. $(2, -6)$ A value distance from point F to point $G?$ $f_{-10-8-6-4-2-2-6-2-6-2-6-2-6-2-6-2-6-2-6-2-6-2$	NAMI	£			_ DATE
x-axisy-axisprimpyramidconecylinderis the set of all points equidistant from a given point.sphereA(n)		Module	Test	3	Module 10
1. $A(n)$ is the set of all points equidistant from a given point. sphere 2. $A(n)$ is a solid with two circular bases. cylinder 3. A polyhedron with one base and triangular lateral faces is $a(n)$ pyramid 4. The point $(0, -3)$ is on the y-axis 5. A Platonic solid with 20 faces is $a(n)Circle the correct answer for each problem. 6. Which ordered pair is located in Quadrant IV?a. (-2, -6) b. (-2, 6) c. (2, -6) d. (2, 6)(2, -6) 7. What is the distance from point F to point G? (-7) d. -88. Which is a cone?4. Which is a cone?$	Fill	x-ax	is y-axis	prism pyramid	
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pyramid4. The point (0, -3) is on the	2.	A(n) cylind	is a solidier	d with two circular b	pases.
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(2, -6) 7. What is the distance from point F to point G? $\xleftarrow{F} & G \\ -10 & -8 & -6 & -4 & -2 & 0 & 2 \\ a. 8 & b. 7 & c7 & d8 \\ 8$ 8. Which is a cone?	6.	Which ordered pair is located in Quadrant IV?			
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			b. 7		
a. b. c. d. d	8.	Which is a cone?			
		a.	b.	c.	d.

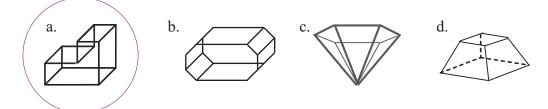
9. The slope of line *h* is 2. What is the slope of any line perpendicular to line *h*?



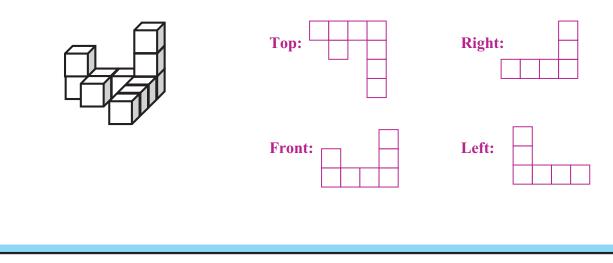
10. Which net is *not* a net of a prism?



11. Which polyhedron is nonconvex?



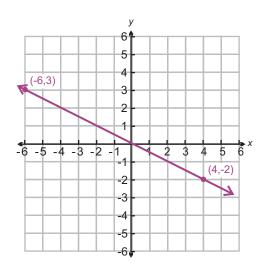
12. Draw the front, top, right, and left side views.



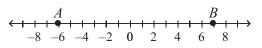
13. Graph the line with points (-6, 3) and (4, -2).Find the slope of the line and the slope of any line perpendicular to it.

Slope of line: $-\frac{1}{2}$

Slope of any perpendicular line: 2



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

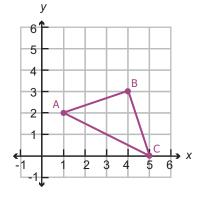


First, find the sum of the coordinates of A and B: -6 + 7 = 1. Then divide this sum by two: $\frac{1}{2}$. The coordinate of the midpoint of \overline{AB} is $\frac{1}{2}$.

15. Plot the points A(1, 2), B(4, 3), and C(5, 0). Show how to use slope and the distance between points to classify the triangle.

The slope of \overline{AB} is $\frac{1}{3}$. The slope \overline{BC} is -3.

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



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Use the Pythagorean Theorem to find the length of $\overline{AB}: 1^2 + 3^2 = c^2$, $10 = c^2$, $c = \sqrt{10}$. Find the length of $\overline{BC}:$ $1^2 + 3^2 = c^2$, $10 = c^2$, $c = \sqrt{10}$. Because the legs are congruent, the triangle is a right isosceles triangle.