

For each of the following:

- plot the two points
- *draw the hypotenuse*
- *complete the triangle*
- *use the Pythagorean theorem to find the distance between the given points*
- show all your work
- *leave answers in* **simplest radical form**.





2. (3, -3), (6, 4)



3. (-5, 0), (2, 3)

÷ = × +



4. (4, -3), (-3, 4)



* 🛉



6. (2, 2), (-1, -2)



7. (0, 0), (-4, 4)

+ = **×**+



8. (3, 5), (-2, -7)



9. (6, -7), (-2, 8)

÷ = ★ +



10. (-4, 6), (5, -6)





Use the list below to write the correct term for each definition on the line provided.

absolute value coordinate grid or pla distance graph (of a point)	ine	horizontal negative numbers positive numbers	vertical <i>x-</i> axis <i>y-</i> axis	
 	1.	parallel to or in the same horizon	e plane of the	2
 	2.	the length of a segment points	connecting ty	wo
 	3.	at right angles to the hor up and down	rizon; straigh	ıt
 	4.	numbers less than zero		
 	5.	a number's distance from number line	m zero (0) on	ı a
	6.	numbers greater than ze	ero	
 	7.	the vertical number line rectangular coordinate s	on a system	
 	8.	the point assigned to an a coordinate plane	ordered pair	: on
	9.	the horizontal number la rectangular coordinate s	ine on a system	
 	. 10.	a two-dimensional netw horizontal and vertical l parallel and evenly-space	vork of ines that are ced	

Match each definition with the correct term. Write the letter on the line provided.

 1.	a one-dimensional measure that is the measurable property of line		hypotenuse
	segments	В.	leg
 2.	the longest side of a right triangle; the side opposite the right angle	C.	length (<i>l</i>)
 3.	the square of the hypotenuse (<i>c</i>) of a right triangle is equal to the sum of the square of the legs (<i>a</i> and <i>b</i>)	D.	Pythagorean theorem
 4.	the edge of a polygon	E.	right triangle
 5.	a polygon with three sides	-	
 6.	a triangle with one right angle	F.	side
 7.	the result of adding numbers together	G.	square (of a number)
 8.	in a right triangle, one of the two sides that form the right angle	H.	sum
 9.	the result when a number is multiplied by itself or used as a factor twice	I.	triangle

Use the list below to complete the following statements.

		distance horizontal hypotenuse	line segment midpoint parallel	perpendicular slope vertical	
1.	The	slant or	of	a line is defined as	$\frac{\text{rise}}{\text{run}}$.
2.	A li	ne that has no slop	e is called a		_line.
3.	The the	segment that conne	between to ects the two points.	wo points is the ler	ngth of
4.	The is o	pposite the right ar	is the segn	nent in a right triar	ngle that
5.	Line	es that are in the sa	me plane and do no	ot intersect are calle	ed
6.	Ali	ne that has zero slo	ppe is a	line).
7.	The line seg	e point that is locate e segment is called t ment.	ed exactly half way l the	between two endpo	oints of a
8.	If tv	vo lines intersect to	o form right angles, lines.	they are	

 The figure that contains two defined endpoints and all the points in between is called a ______.



Match each definition with the correct term. Write the letter on the line provided.

 1.	the square of the hypotenuse (<i>c</i>) of a right triangle is equal to the sum of the square of the legs (<i>a</i> and <i>b</i>), as shown in the equation $c^2 = a^2 + b^2$	А. В.	formula intersect
 2.	two lines, two line segments, or two planes that intersect to form a right angle	C.	parallel lines
 3.	an angle whose measure is exactly 90°	D.	perpendicular (\perp)
 4.	two lines in the same plane that are a constant distance apart; lines with equal slopes	E.	product
 5.	two numbers whose product is 1; also called <i>multiplicative inverses</i>	F.	Pythagorean theorem
 6.	to meet or cross at one point		
 7.	a way of expressing a relationship using variables or symbols that represent numbers	G.	reciprocals
 8.	the result of multiplying numbers together	H.	right angle