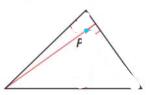
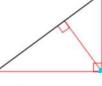
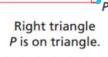


As shown below, the location of the orthocenter *P* of a triangle depends on the type of triangle.



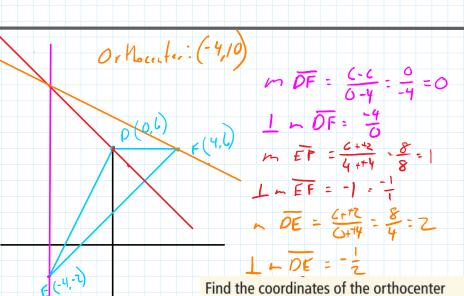


Acute triangle P is inside triangle.





*P* is outside triangle.



Find the coordinates of the orthocenter of  $\triangle DEF$  with vertices D(0, 6), E(-4, -2), and F(4, 6). (-4, 10)

	Example	Point of Concurrency	Property	Example
perpendicular pisector		circumcenter	The circumcenter <i>P</i> of a triangle is equidistant from the vertices of the triangle.	A
ngle bisector		incenter	The incenter <i>I</i> of a triangle is equidistant from the sides of the triangle.	A
nedian		centroid	The centroid <i>R</i> of a triangle is two thirds of the distance from each vertex to the midpoint of the opposite side.	A D C
ıltitude		orthocenter	The lines containing the altitudes of a triangle are concurrent at the orthocenter <i>O</i> .	B

Practice *sec 6.3* pg. 324: 19-28A, 31-36A Pg. 328: 11, 12