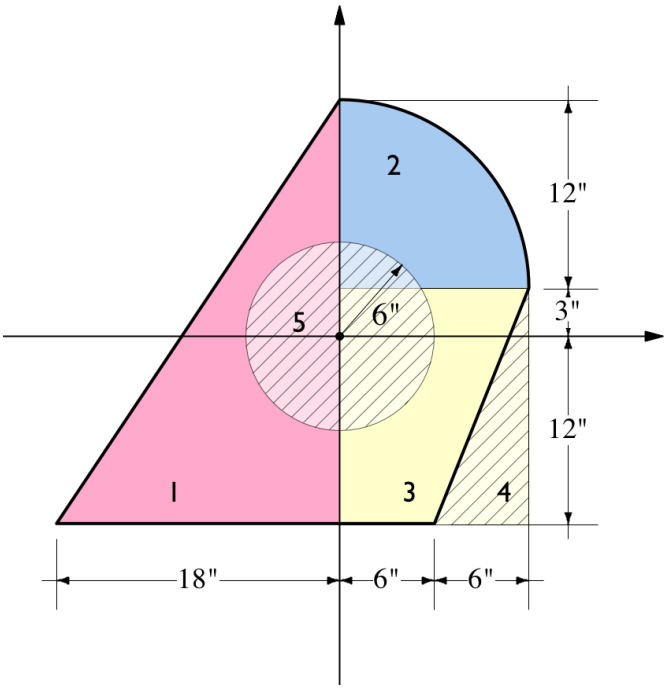
Use the composite area method to determine the coordinates of the centroid of the shape shown.



Part	A_i (in^2)	x_i (in)	y_i (in)	$A_i x_i$ (in^3)	$A_i y_i$ (in^3)
1 Triangle	243.000	-6.000	-3.000	-1458.000	-729.000
2 Quarter Circ	113.097	5.093	8.093	576.000	915.292
3 Rectangle	180.000	6.000	-4.500	1080.000	-810.000
4 Triangle	-45.000	10.000	-7.000	-450.000	315.000
5 Circle	-113.097	0.000	0.000	0.000	0.000
Sum:	**378.000**			**-252.000**	**-308.708**
	$\bar{x} = \frac{Q_y}{A} =$	-0.667	$\bar{y} = \frac{Q_x}{A} =$	-0.817	