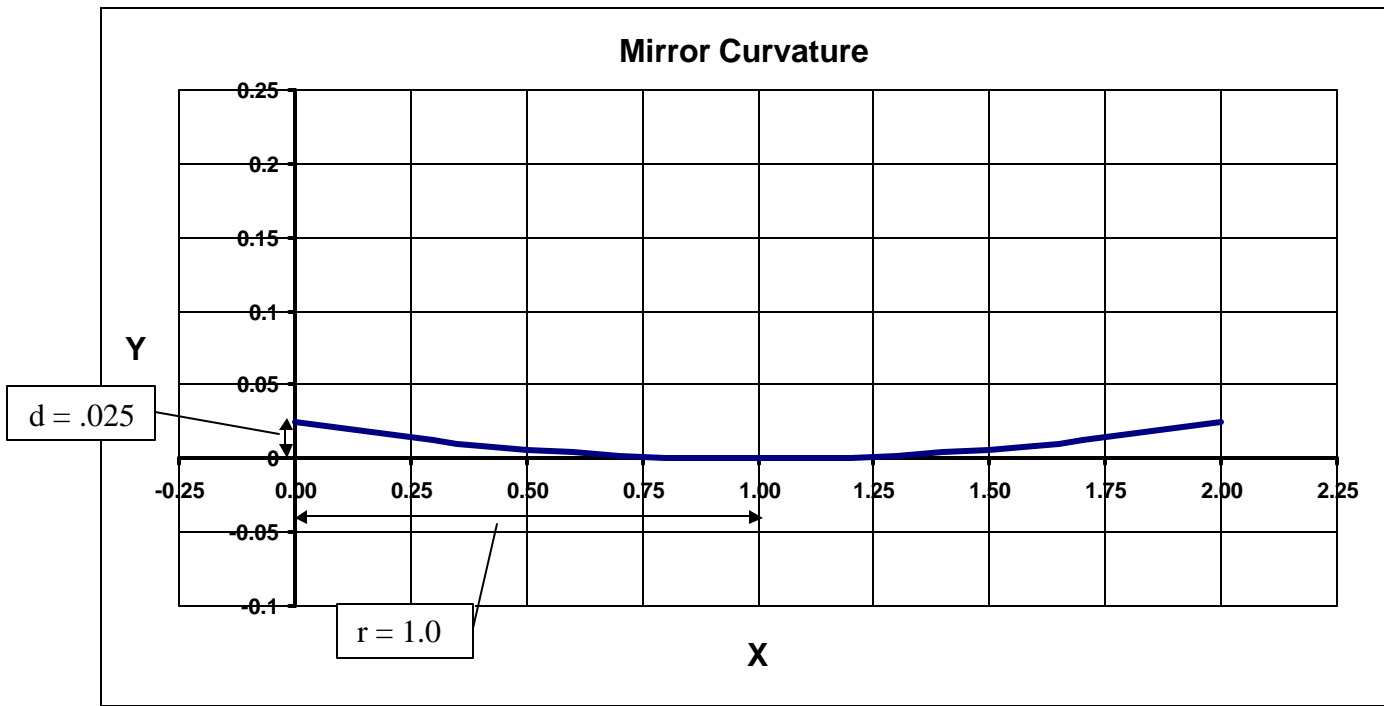


## Mirror Curvature

The graph below represents the curvature of a large telescope mirror. In this case the depth of the mirror,  $d$ , is .025 meters, and the radius of the mirror,  $r$ , is 1.0 meters.



1) Find the equation for this curve.

2) Find the equations for curves with these values of  $r$  and  $d$ :

$r$	$d$	Equation
1.2	.025	
1.4	.025	
1.6	.025	
1.8	.025	
2.0	.025	
1.0	.020	
1.0	.022	
1.0	.028	
1.0	.030	
2.0	.030	
2.5	.040	
3.0	.050	

3) Create a graph for each of the above curves.