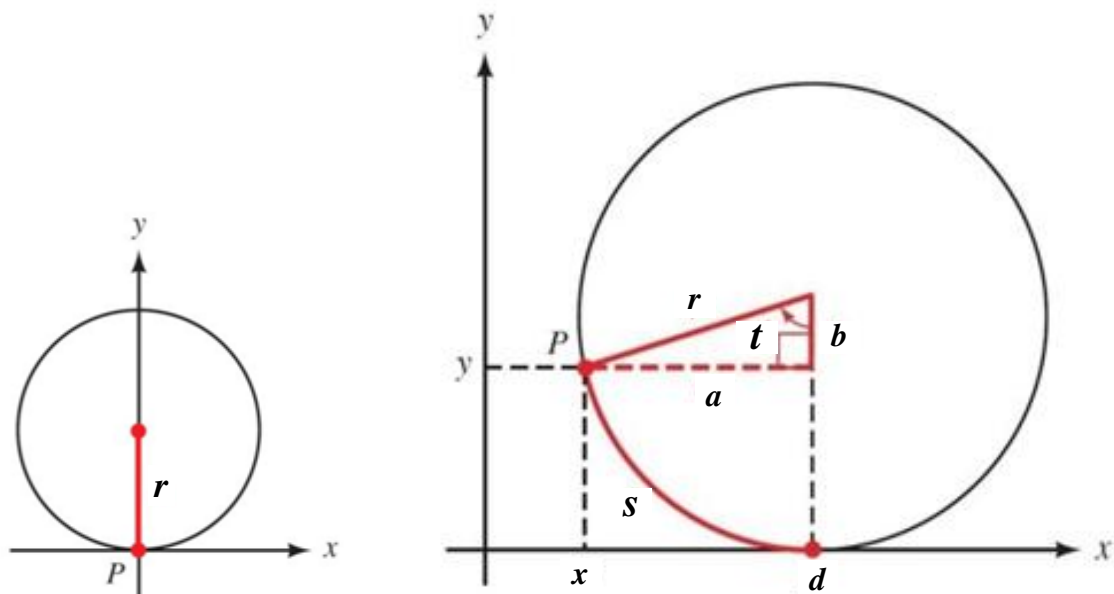


1.



- If d is the distance that the circle has rolled then what is the length of the arc?
- Find a relationship between d and t from part (a)
- Find equations for x and y in terms of a , b , r , and d
- Find a , b , x , and y in terms of r and t
- How long it will take for the point P to get to the top of the wheel, if the wheel radius is 4 ft and turns with an angular velocity of 5 radians per minute.

2. Find the solution(s) for: $\cos 2x + \cos 4x = \cos x$