Angular displacement

- 1. A girl sitting on a merry-go-round moves counterclockwise through an arc length of 2.50 m. If the girl's angular displacement is 1.67 rad, how far is she from the center of the merry-go-round?
- 2. A beetle sits at the top of a bicycle wheel and flies away just before it would be squashed. Assuming that the wheel turns clockwise, the beetle's angular displacement is π rad, which corresponds to an arc length of 1.2 m. What is the wheel's radius?
- 3. A car on a Ferris wheel has an angular displacement of \(\frac{\pi}{4}\) rad, which corresponds to an arc length of 29.8 m. What is the Ferris wheel's radius?
- 4. Fill in the unknown quantities in the following table:

$\Delta\theta$	Δs	
a. ?rad	+0.25 m	0.10 m
b. +0.75 rad	?	8.5 m
c. ? degrees	-4.2 m	0.75 m
d. +135°	+2.6 m	3.

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