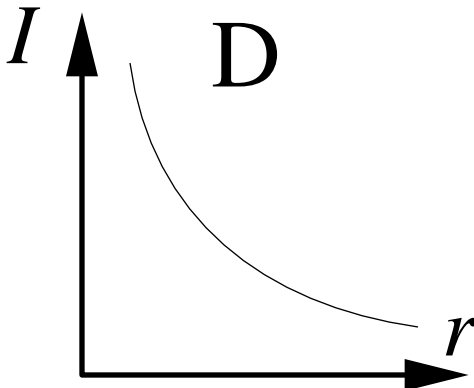
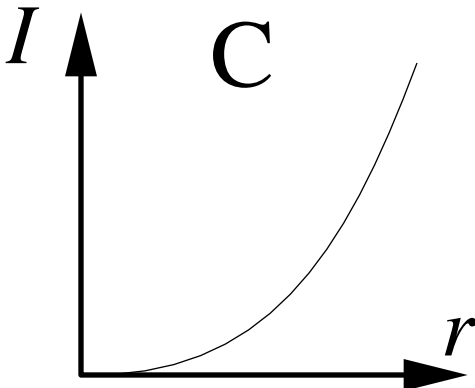
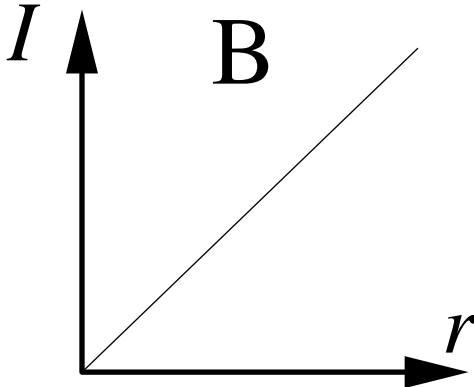
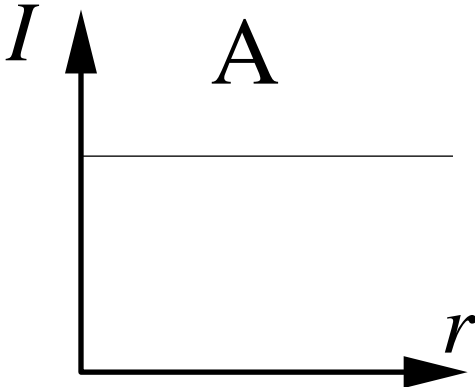
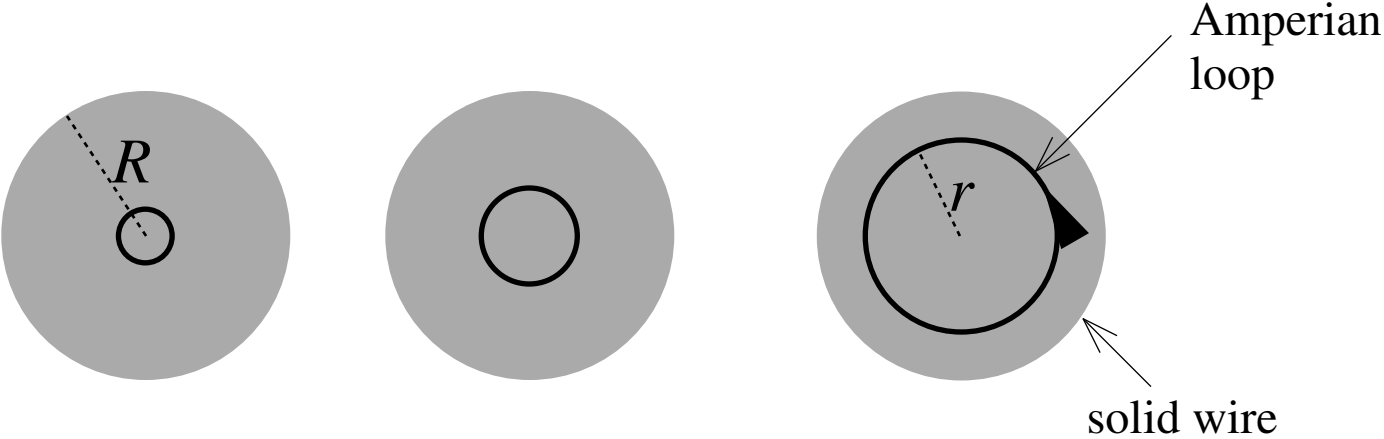
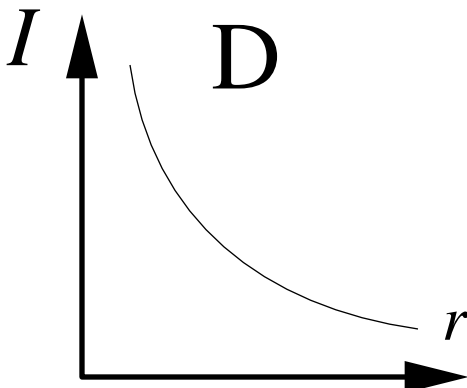
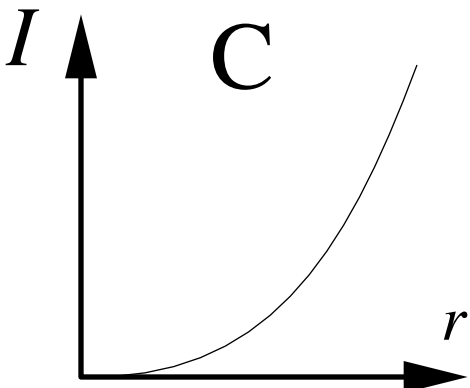
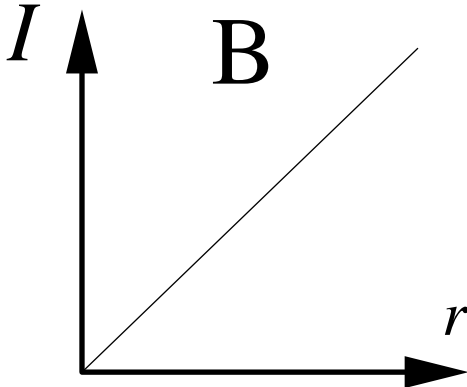
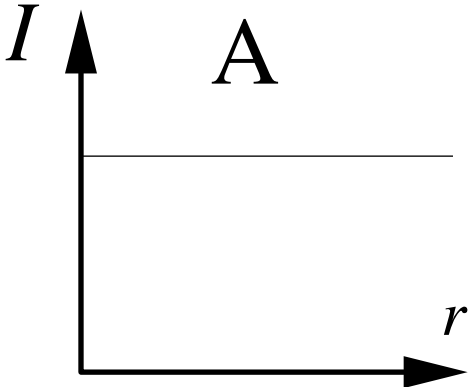
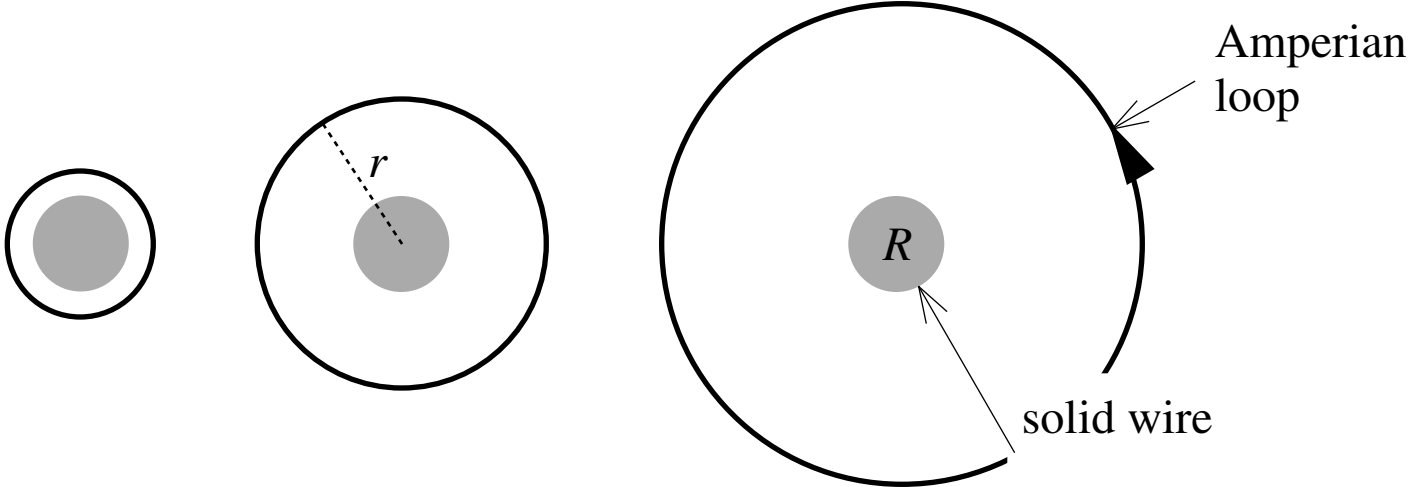


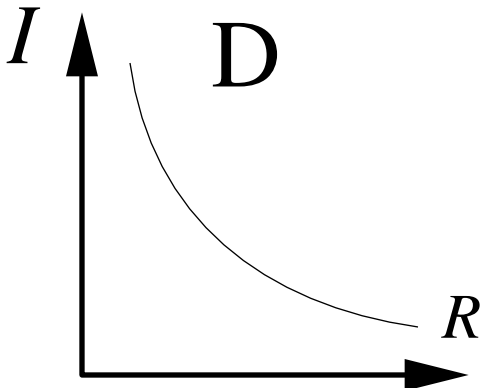
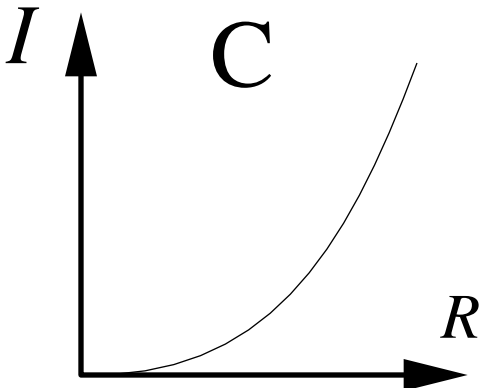
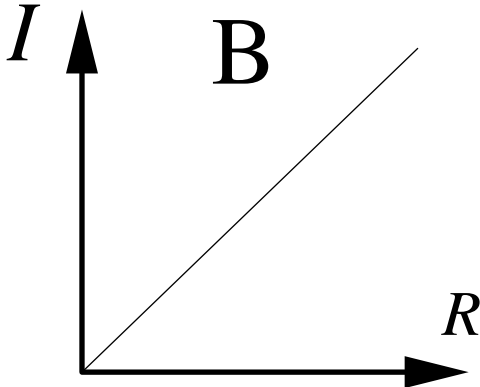
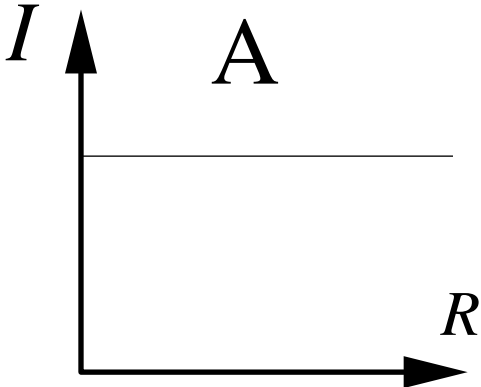
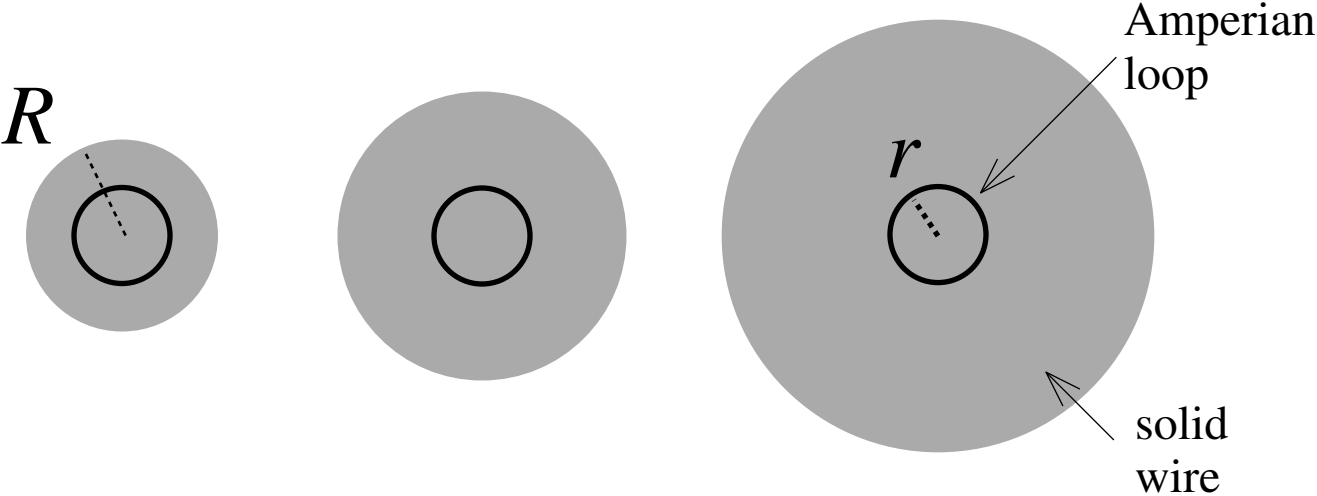
The below figure shows, in cross section, three identical solid cylindrical wires of radius (R) carrying a current I distributed uniformly throughout the cross section. Also shown is three Amperian loops; The three have differing radius (r). What is the magnitude of the current I through these loops as a function of r ? Which of the below plots best displays the relationship between I and r ?



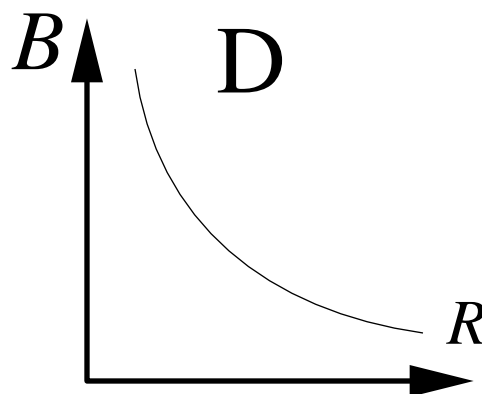
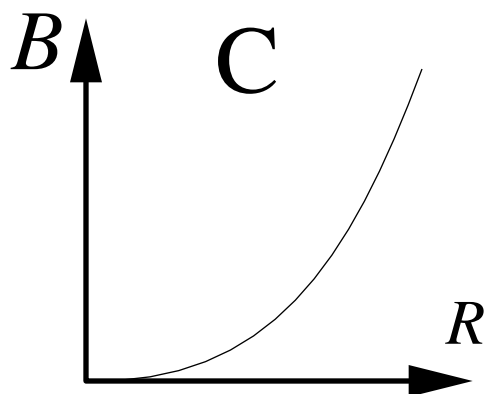
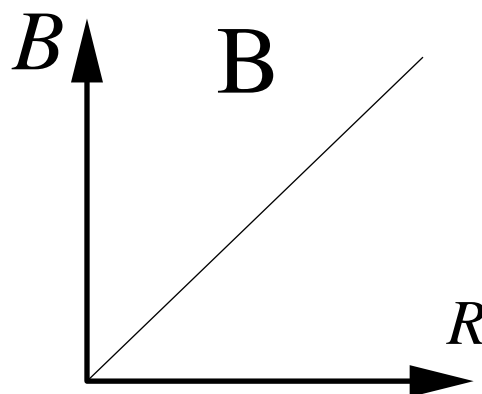
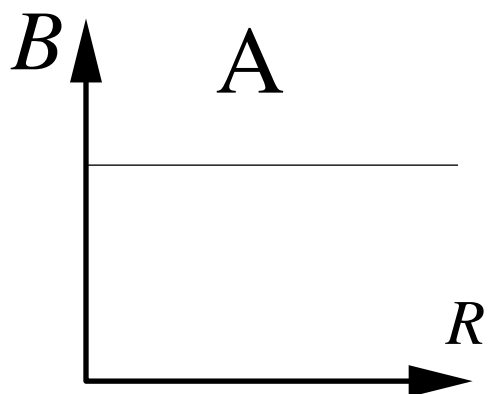
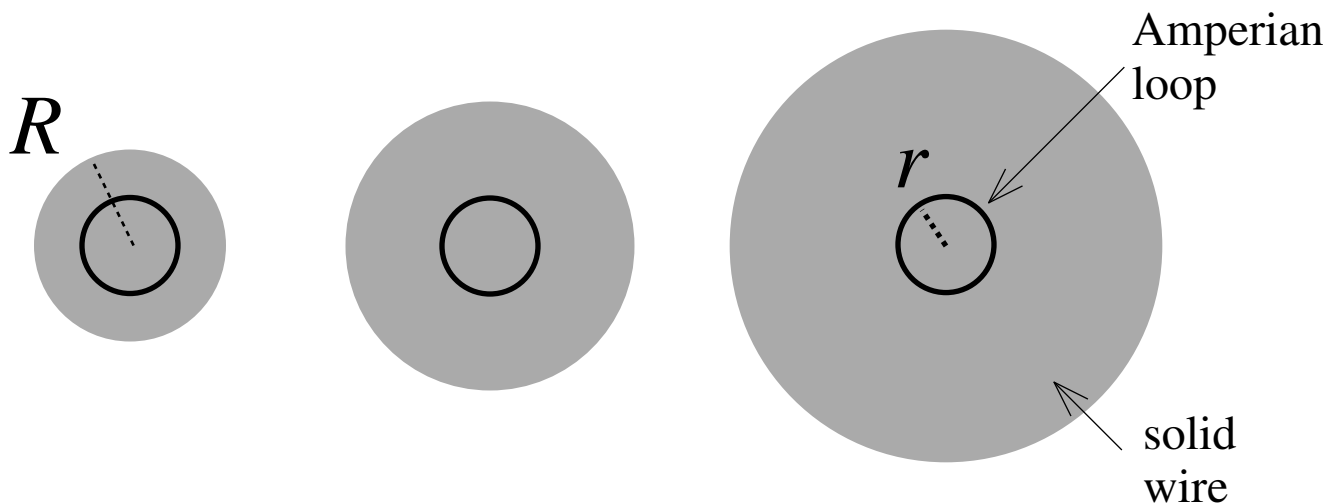
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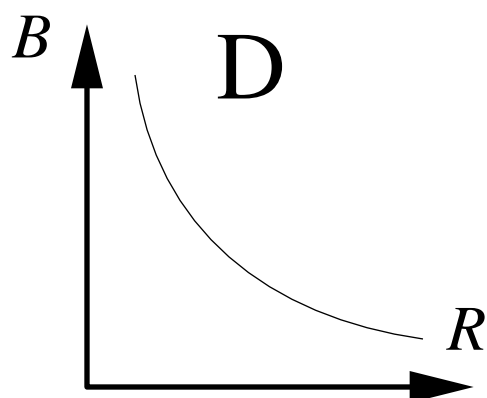
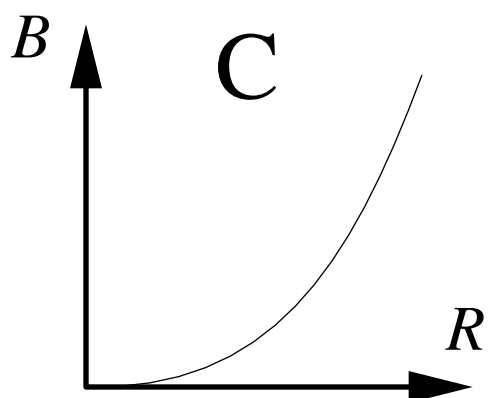
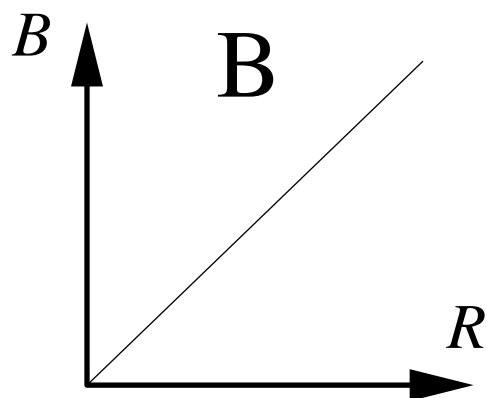
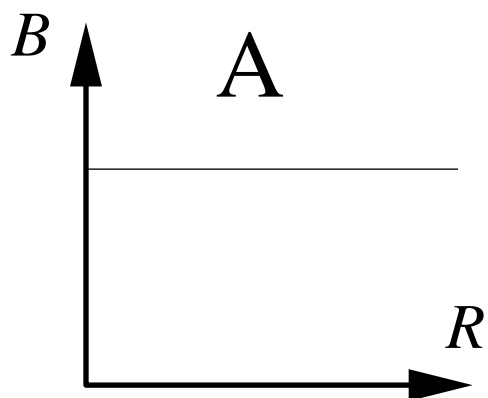
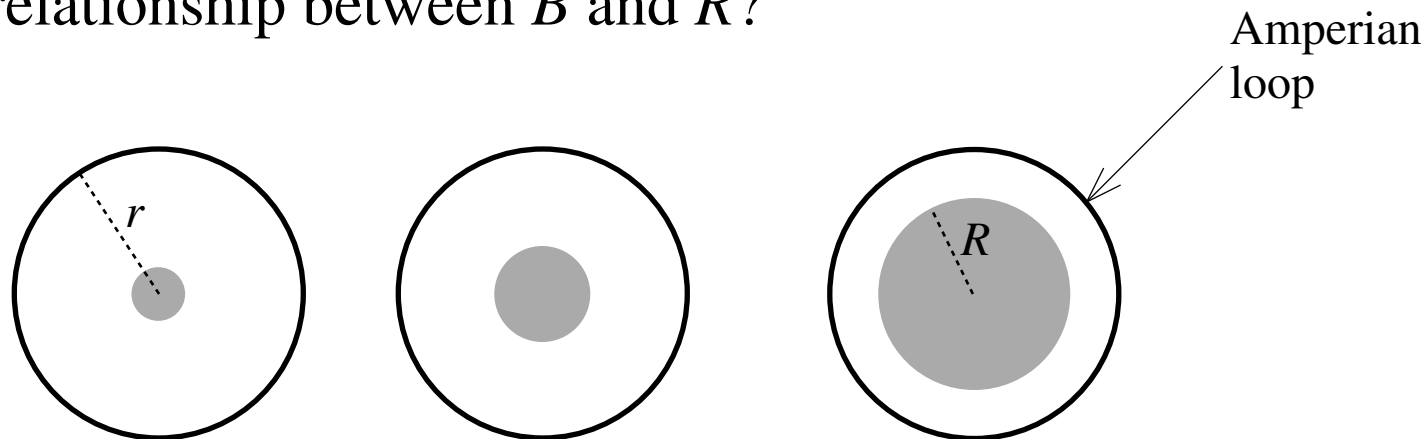
The below figure shows, in cross section, three solid cylindrical wires of differing radius (R) but all carrying the same current I distributed uniformly throughout the cross section. Also shown is three Amperian loops; The three have the same radius (r). What is the magnitude of the current I through these loops as a function of R ? Which of the below plots best displays the relationship between I and R ?



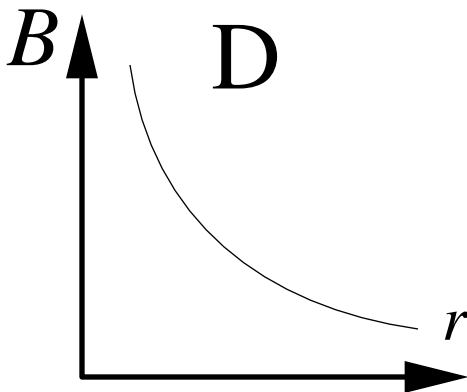
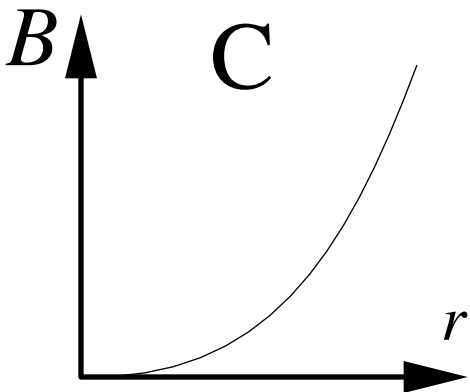
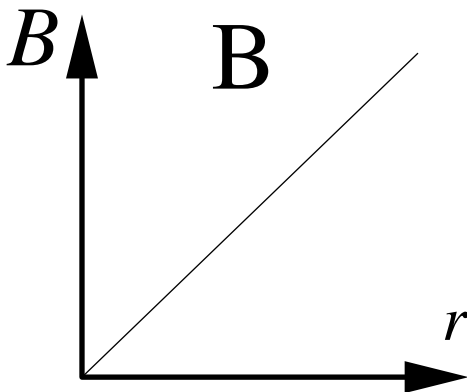
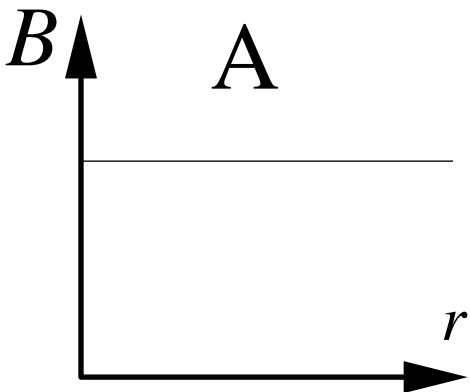
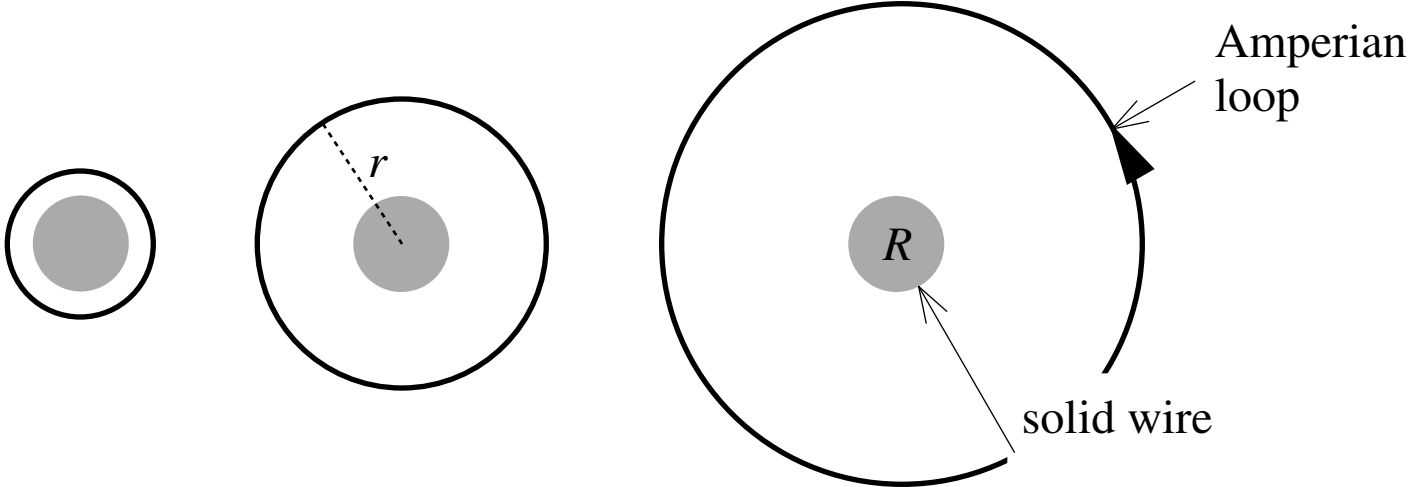
The below figure shows, in cross section, three solid cylindrical wires of differing radius (R) but all carrying the same current I distributed uniformly throughout the cross section. Also shown is three Amperian loops; The three have the same radius (r). What is the magnitude of the magnetic field B around these loops as a function of R ? Which of the below plots best displays the relationship between B and R ?

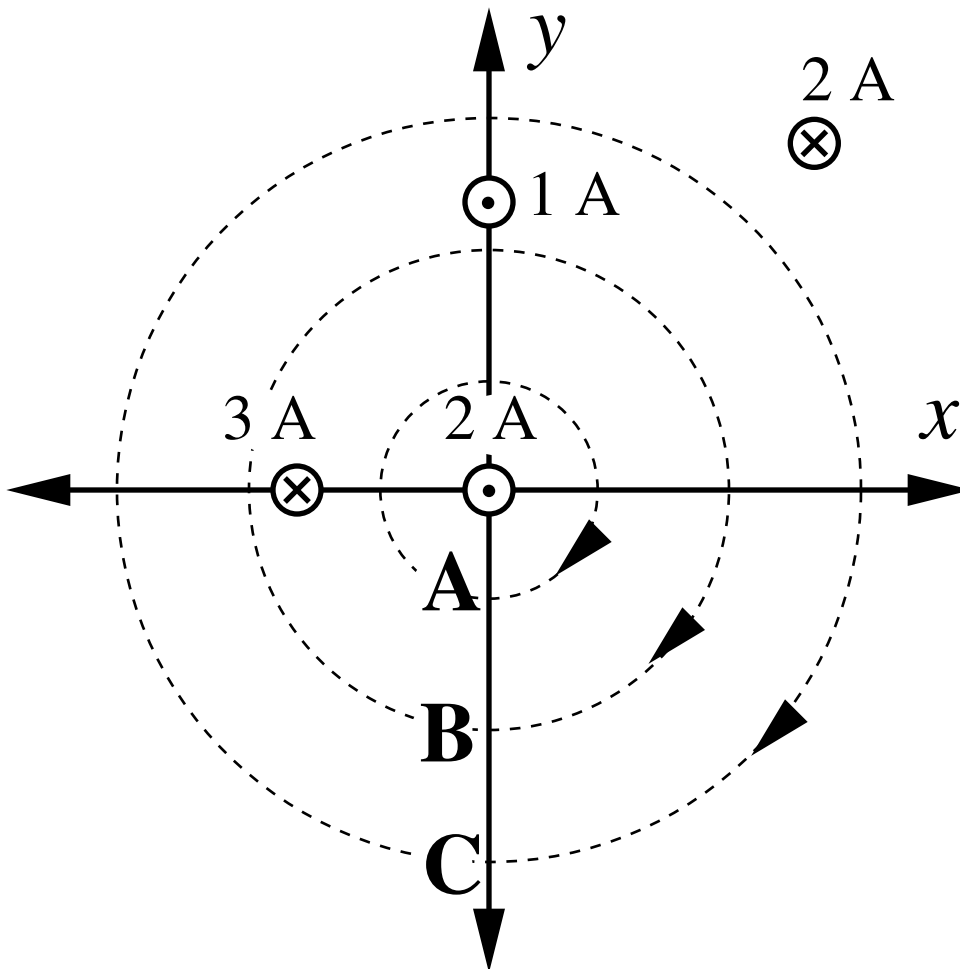


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Which amperian loop encloses the most current (positive numbers are larger than negative numbers)