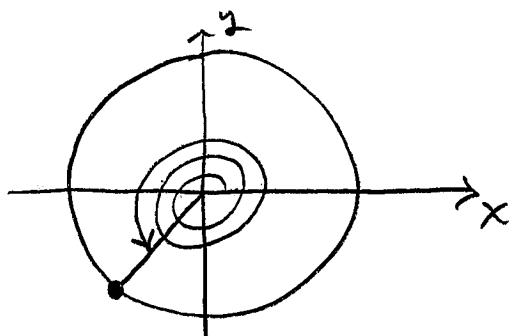


(1) [3 points] Sketch $\frac{16\pi}{3}$ in standard position.



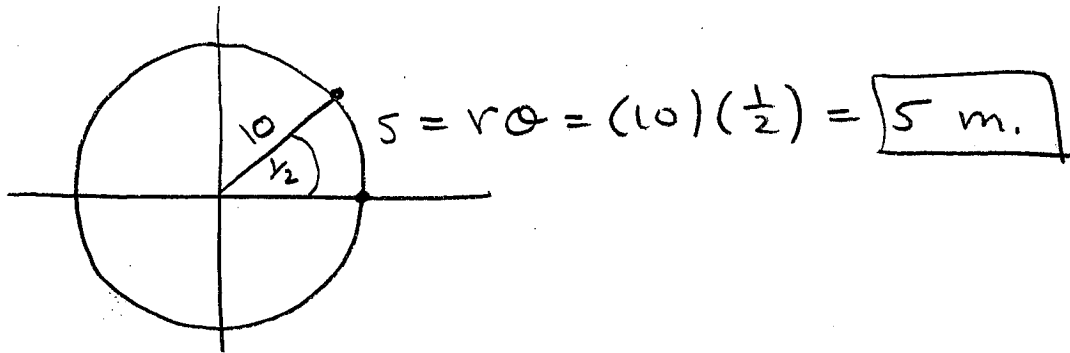
(2) [3 points] Convert -135° to radians.

$$(-135^\circ) \left(\frac{\pi \text{ radians}}{180^\circ} \right) = \boxed{\frac{-3\pi}{4}}$$

(3) [3 points] Convert $\frac{\pi}{12}$ to degrees.

$$\left(\frac{\pi}{12} \text{ radians} \right) \left(\frac{180^\circ}{\pi \text{ radians}} \right) = \boxed{15^\circ}$$

(4) [3 points] Compute the length of arc corresponding to an angle of $1/2$ radian in a circle of radius $r = 10$ m. State units with your answer.



(5) [3 points] A sector of a circle has area 2 square feet and corresponding central angle $1/3$ radian. What is the radius r ? State units with your answer.

