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so many fake sites. this is the first one which worked! Many thanks

25. The circumference of a circle is increasing at a constant rate of 1 cm/min. What is the rate of change of the area of the circle when the radius is 4 meters?

(A) $2 \text{ m}^2/\text{min}$
(B) $6 \text{ m}^2/\text{min}$
(C) $4\pi \text{ m}^2/\text{min}$
(D) $\frac{1}{2}\pi \text{ m}^2/\text{min}$
(E) $\frac{1}{4}\pi \text{ m}^2/\text{min}$

① $\frac{dC}{dt} = 0.5$ ② $A = \pi r^2$
 $\frac{dA}{dt} = 2\pi r \frac{dr}{dt}$

③ $C = 2\pi r$
 $\frac{dC}{dt} = 2\pi \cdot \frac{dr}{dt}$
 $0.5 = 2\pi \frac{dr}{dt}$
 $\frac{1}{4\pi} = \frac{dr}{dt}$

④ $\frac{dA}{dt} = 2\pi(4)\left(\frac{1}{4\pi}\right)$
 $= 2$

Answer

26. Let $f(x)$ be the function defined by $f(x) = \begin{cases} x & \text{for } x \leq 0 \\ |x+1| & \text{for } x > 0 \end{cases}$

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