

25. The circumference of a circle is increasing at 0.5 m/min. What is the rate of change of the area of the circle when the radius is 4 meters?

- (A) 2 m²/min
 (B) 6 m²/min
 (C) 4π m²/min
 (D) $\frac{1}{2\pi}$ m²/min
 (E) $\frac{1}{4\pi}$ m²/min

$$\textcircled{1} \frac{dC}{dt} = 0.5$$

$$\textcircled{2} A = \pi r^2$$

$$\frac{dA}{dt} = 2\pi r \frac{dr}{dt}$$

$$\textcircled{3} C = 2\pi r$$

$$\frac{dC}{dt} = 2\pi \cdot \frac{dr}{dt}$$

$$0.5 = 2\pi \frac{dr}{dt}$$

$$\frac{1}{4\pi} = \frac{dr}{dt}$$

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

$$= 2$$

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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