

25. The circumference of a circle is increasing at the rate of 0.5 meters/minute. 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) $A = \pi r^2$

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

(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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in areas such as teacher education quantitative literacy informal education writing and communication social justice outreach and mentoring tactile learning art and mathematics ethnomathematics scholarship of teaching and learning and mathematics education research Contributors describe their work its impact and how it is perceived and valued In addition there is a chapter co authored by two mathematicians who have become administrators on the challenges of supporting evaluating and rewarding work in mathematics education in departments of mathematical sciences This book is intended to inform the readership of the breadth of the work and to encourage discussion of its value in the mathematical community The writing is expository not technical and should be accessible and informative to a diverse audience The primary readership includes all those in departments of mathematical sciences in two or four year colleges and universities and their administrators as well as graduate students Researchers in education may also find topics of interest Other potential readers include those doing work in mathematics education in schools of education and teachers of secondary or middle school mathematics as well as those involved in their professional development

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