



$$= -\frac{6+4x-x^2}{3} - 3 \arcsin \frac{x}{3}$$

$$\arcsin \frac{x}{3}$$

$$\frac{3x+5}{(x^2-4x+7)^{3/2}} dx =$$

$$\frac{3x+5}{2(x^2-4x+7)^{3/2}} dx =$$

$$\frac{3x+5}{2} \cdot \frac{1}{(x^2-4x+7)^{3/2}}$$



$$\int \frac{3x+5}{(x^2-4x+7)^{3/2}} dx = \int \frac{3u+6+5}{(u^2+3)^{3/2}} du = 3 \int \frac{u du}{(u^2+3)^{3/2}} + 7 \int \frac{1}{(u^2+3)^{3/2}} du$$

$$\begin{cases} u = x-2, du = dx \\ x = u+2 \end{cases}$$

$$\int (x^2+y) dx dy = \int \cos(x+y) dx dy$$

$$\int (x^2+y) dx dy = \int dx \int dy$$

$$\int \frac{1}{x^2-4x+7} dx = \int \frac{1}{(x-2)^2+3} dx$$

$$= \frac{1}{\sqrt{3}} \arctan \frac{x-2}{\sqrt{3}} + C$$

Lesson 4.3 Piecewise Functions 275

**Problem 2** Got it? What piecewise function represents the graph?

Writing a Piecewise Function

graph each function.

- $f(x) = \begin{cases} x+4, & \text{for } x \leq -2 \\ -x+2, & \text{for } x > -2 \end{cases}$
- $f(x) = \begin{cases} -x^2, & \text{for } x > 0 \\ \frac{1}{2}x+2, & \text{for } x \leq 0 \end{cases}$









# CHAOS

An awe-inspiring book.  
Reading Chaos gave me the  
sensation that someone had  
just found the light switch.  
DOUGLAS ADAMS

JAMES GLEICK

JAMES GLEICK CHAOS

The science of chaos cuts across traditional scientific disciplines, from the turbulence of weather to the design of snowflakes to the whirly of windweeps, desert sands.  
From the burlesque of wildness and irregularity, Gleick brings together unrelated kinds of wondrous, intricate, and irregular rhythms of the human heart, from the design of snowflakes to the whirly of windweeps, desert sands.  
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...sana da cöret. O adı okuyarak, ...  
...delerini diriltiyim."  
...dece ki, "Sus! Bu senin harcı değil."  
...nefesinin, sözünün harcı değil."  
...bir nefes lazım ki ona değil, ...  
...meleklerden daha anlayışlı olsun."  
...temizlenmesine, göklerin ...  
...bulmaya çok zaman ister ...  
...ben senin eline versen ...  
...Ailesi yurt sınırları bir ...

...kavuşur.  
...güzel ceylanın tınağı rehber  
...devam ederse,  
...bu takibe  
...bir menzil gitmek,  
...iyidir.  
...anılar  
...doğduğu yer olan gönül, anılar  
...kapılardır."

180. Öztürkler daha ...  
...gölge görünür.  
...görürler.  
...gör.  
...görürler.

