```
\sum_{i=1}^{n} \left[ Area \times \right]
   thickness
   \sum_{i=1}^{n} A(x_i)_i.
   \frac{-}{b}y_{c}ross_{s}ectionVolumeByCross-SectionalAreaThe volume of a solid, oriented along the -axis with cross-sectional area from to, is V=
   \int_a^b A(x)dx.
                                              _{d} is k0 Finding the volume of a solid Find the volume of a pyramid with a square base of side length 10 in and a height of 5 in. The property of the prop

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\begin{array}{c} \Delta x_i \\ \Delta x_i \\ 36\Delta x_i^3 \\ ?? \\ x = \\ 3_a rea 1a_3 D \\ n \end{array}

\begin{array}{c}
(1) \\
(2x_i)^2 \Delta x \\
x_i \\
\Delta x
\end{array}

   Approximate volume = \sum_{i=1}^{n} (2x_i)^2 \Delta x.
 \underline{\lim}_{n\to\infty} \sum_{i=1}^n (2x_i)^2 \Delta x
 \underline{\underline{\int_0^5}} 4x^2 dx
\frac{4}{3}x^{3}\Big|^{5}
                                     0
   \frac{\overline{500}}{3}in^3 \approx 166.67in^3.
   \ddot{a}reaofbase \times
 height
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tion

y \equiv f(x) \\
x \equiv g = g \\
R(x) \\
x = g(x)

 {}^{m}ethod The Disk Method Let a solid beformed by revolving the curve from to a round a horizontal axis, and let be the radius of sectional disk at. The volume of the solid is V=
 \pi \int_a^b R(x)^2 dx.
   \stackrel{\circ u}{disk} \stackrel{\circ}{1} Finding volume using the Disk Method Find the volume of the solid formed by revolving the curve, from to, around the volume of the solid formed by revolving the curve, from to, around the volume of the solid formed by revolving the curve, from to, around the volume of the solid formed by revolving the curve, from to, around the volume of the solid formed by revolving the curve, from to, around the volume of th
    -at with radius. In Figure \ref{figure} (b) the whole solid is pictured, along with the differential element.
 \pi R(x_i)^2 \Delta x
R(x_i)
 \frac{\Delta x}{R(x_i)}
   R(x_i) =
```

 $n \qquad (1 ) 2$