MTE 482

Mathematics Typesetting

Replicate the following mathematical expressions and geometric shapes using Microsoft Word.

To find Equation Editor, look on the toolbar for the Equation icon: $\boxed{\sqrt{\alpha}}$ or look under INSERT then OBJECT to EQUATION 3.0. If you are using your home computer, and the icon is not on your tool bar, I suggest you add it to your tool bar using the VEIW/TOOLBAR/CUSTOMIZE option.

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1. $1\frac{2}{3}+3\frac{1}{2}$

2. $y=\dfrac{x+\dfrac{1}{x}}{x^2-\dfrac{1}{1+x}}$

3. $f(x)=e^{-x}\dfrac{\sqrt{4+x^3}}{dx}$

4. $\int_0^{\pi}(x^2-\frac{4}{3}x+15)dx$

5. $f'(x)=\lim_{h\to 0}\dfrac{f(x+h)-f(x)}{h}$

6. $\sum_{k=0}^{n}k=\dfrac{n(n-1)}{2}$

7. $m=\dfrac{\Delta y}{\Delta x}$

8. $A=l\times w$

9. $x=\dfrac{-b\pm\sqrt{b^2-4ac}}{2a}$

10. $|x-3|\le 5$

11. $\begin{vmatrix}a & b\\ c & d\end{vmatrix}\times\begin{vmatrix}1 & 0\\ 0 & 1\end{vmatrix}=B$

12. $A=\{1,2,3,4,5\}$
    $B=\{1,3,5\}$
    $3\in A\cap B$
    $B\subseteq A$
    $A\not\subset B$