4. Which of the following are correct calculations for difference quotient of: $t\left(n\right)=7\ n+2$ $t\left(n\right)=7\ n+2$

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t(n) = 7 + 2
t(n+h) = 7 + (h+n) + 2
= 7 + 7 + 7 + 2
\frac{t(n+h)-t(n)}{h} = \frac{(7 + 7 + 7 + 2) - (7 + (n+1) + 2)}{h}
= \frac{7 + h}{h}
= \frac{h(7)}{h}
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$$= \frac{7h}{h}$$

$$= \frac{h(7)}{h}$$

$$= 7$$

$$t(n) = 7 n + 2$$

$$t(n+h) = 7 (h+n) + 2$$

$$= 7 h + 7 n + 2$$

$$\frac{t(n+h)-t(n)}{h} = \frac{(7h+7n+2)-(7n+2)}{h}$$

$$= \frac{7h}{h}$$

 $\frac{t\,(n\!+\!h)\,-t\,(n)}{=}\,\frac{(7\,h\!+\!7\,n\!+\!9)\,-\,(7\,n\!+\!2)}{}$

=7 h + 7 n + 9

$$\begin{array}{c} t\;(n)=7\;n+2\\ t\;(n+h)=7\;(h+n)\;+2\\ =7\;h+7\;n-5\\ \frac{t\;(n+h)-t\;(n)}{h}=\frac{(7\;h+7\;n+16)-(7\;n+2)}{h}\\ =\frac{7\;h}{h}\\ =\frac{h\;(7)}{h}\\ =7 \end{array}$$

Solution

 $=\frac{h\left(7\right) }{h}$

=7