4. Which of the following are correct calculations for difference quotient of:

$t(c) = 3c + 1$

$t(c) = 3c + 1$

$t(c+h) = 3(c + h) + 1$

$= 3c + 3h + 1$

$\dfrac{t(c+h) - t(c)}{h} = \dfrac{(3c+3h+1) - (3(c+1)+1)}{h}$

$= \dfrac{3h}{h}$

$= \dfrac{h(3)}{h}$

$= 3$

$t(c) = 3c + 1$

$t(c+h) = 3(c + h) + 1$

$= 3c + 3h + 4$

$\dfrac{t(c+h) - t(c)}{h} = \dfrac{(3c+3h+4) - (3c+1)}{h}$

$= \dfrac{3h}{h}$

$= \dfrac{h(3)}{h}$

$= 3$

$t(c) = 3c + 1$

$t(c+h) = 3(c + h) + 1$

$= 3c + 3h + 1$

$\dfrac{t(c+h) - t(c)}{h} = \dfrac{(3c+3h+1) - (3c+1)}{h}$

$= \dfrac{3h}{h}$

$= \dfrac{h(3)}{h}$

$= 3$

$t(c) = 3c + 1$

$t(c+h) = 3(c + h) + 1$

$= 3c + 3h - 2$

$\dfrac{t(c+h) - t(c)}{h} = \dfrac{(3c+3h+7) - (3c+1)}{h}$

$= \dfrac{3h}{h}$

$= \dfrac{h(3)}{h}$

$= 3$

Solution