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

$n(c) = 2c^2 + 2c + 7$

$n(c) = 2c^2 + 2c + 7$

$n(c+h) = 2(c+h)^2 + 2(c+h) + 7$

$= 2c^2 + 4ch + 2c + 2h^2 + 2h + 7$

$\dfrac{n(c+h) - n(c)}{h} = \dfrac{\left(2c^2 + 4hc + 2c + 2h^2 + 2h + 7\right) - \left(2(c+1)^2 + 2(c+1) + 7\right)}{h}$

$= \dfrac{2h^2 + 4ch + 2h}{h}$

$= \dfrac{h(4c + 2h + 2)}{h}$

$= 4c + 2h + 2$

$n(c) = 2c^2 + 2c + 7$

$n(c+h) = 2(c+h)^2 + 2(c+h) + 7$

$= 2c^2 + 4ch + 6c + 2h^2 + 6h + 11$

$\dfrac{n(c+h) - n(c)}{h} = \dfrac{\left(2c^2 + 4hc + 6c + 2h^2 + 6h + 11\right) - \left(2c^2 + 2c + 7\right)}{h}$

$= \dfrac{2h^2 + 4ch + 2h}{h}$

$= \dfrac{h(4c + 2h + 2)}{h}$

$= 4c + 2h + 2$

$n(c) = 2c^2 + 2c + 7$

$n(c+h) = 2(c+h)^2 + 2(c+h) + 7$

$= 2c^2 + 4ch + 2c + 2h^2 + 2h + 7$

$\dfrac{n(c+h) - n(c)}{h} = \dfrac{\left(2c^2 + 4hc + 2c + 2h^2 + 2h + 7\right) - \left(2c^2 + 2c + 7\right)}{h}$

$= \dfrac{2h^2 + 4ch + 2h}{h}$

$= \dfrac{h(4c + 2h + 2)}{h}$

$= 4c + 2h + 2$

$n(c) = 2c^2 + 2c + 7$

$n(c+h) = 2(c+h)^2 + 2(c+h) + 7$

$= 2c^2 + 4ch - 2c + 2h^2 - 2h + 7$

$\dfrac{n(c+h) - n(c)}{h} = \dfrac{\left(2c^2 + 4hc + 10c + 2h^2 + 10h + 19\right) - \left(2c^2 + 2c + 7\right)}{h}$

$= \dfrac{2h^2 + 4ch + 2h}{h}$

$= \dfrac{h(4(c+1) + 2h + 2)}{h}$

$= 4c + 2h + 2$

Solution