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

$k(n) = 5n + 4$

$k(n) = 5n + 4$

$k(n+h) = 5(h + n) + 4$

$= 5h + 5n + 4$

$\frac{k(n+h) - k(n)}{h} = \frac{(5h+5n+4) - (5(n+1)+4)}{h}$

$= \frac{5h}{h}$

$= \frac{h(5)}{h}$

$= 5$

$k(n) = 5n + 4$

$k(n+h) = 5(h + n) + 4$

$= 5h + 5n + 9$

$\frac{k(n+h) - k(n)}{h} = \frac{(5h+5n+9) - (5n+4)}{h}$

$= \frac{5h}{h}$

$= \frac{h(5)}{h}$

$= 5$

$k(n) = 5n + 4$

$k(n+h) = 5(h + n) + 4$

$= 5h + 5n + 4$

$\frac{k(n+h) - k(n)}{h} = \frac{(5h+5n+4) - (5n+4)}{h}$

$= \frac{5h}{h}$

$= \frac{h(5)}{h}$

$= 5$

$k(n) = 5n + 4$

$k(n+h) = 5(h + n) + 4$

$= 5h + 5n - 1$

$\frac{k(n+h) - k(n)}{h} = \frac{(5h+5n+14) - (5n+4)}{h}$

$= \frac{5h}{h}$

$= \frac{h(5)}{h}$

$= 5$

Solution