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

$n(x) = 2x + 8$

$n(x) = 2x + 8$

$n(x+h) = 2(h + x) + 8$

$= 2h + 2x + 8$

$\frac{n(x+h) - n(x)}{h} = \frac{(2h + 2x + 8) - (2(x+1) + 8)}{h}$

$= \frac{2h}{h}$

$= \frac{h(2)}{h}$

$= 2$

$n(x) = 2x + 8$

$n(x+h) = 2(h + x) + 8$

$= 2h + 2x + 10$

$\frac{n(x+h) - n(x)}{h} = \frac{(2h + 2x + 10) - (2x + 8)}{h}$

$= \frac{2h}{h}$

$= \frac{h(2)}{h}$

$= 2$

$n(x) = 2x + 8$

$n(x+h) = 2(h + x) + 8$

$= 2h + 2x + 8$

$\frac{n(x+h) - n(x)}{h} = \frac{(2h + 2x + 8) - (2x + 8)}{h}$

$= \frac{2h}{h}$

$= \frac{h(2)}{h}$

$= 2$

$n(x) = 2x + 8$

$n(x+h) = 2(h + x) + 8$

$= 2h + 2x + 6$

$\frac{n(x+h) - n(x)}{h} = \frac{(2h + 2x + 12) - (2x + 8)}{h}$

$= \frac{2h}{h}$

$= \frac{h(2)}{h}$

$= 2$

Solution