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

$j(x) = 2x + 1$

$j(x) = 2x + 1$

$j(x+h) = 2(h + x) + 1$

$= 2h + 2x + 1$

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

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

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

$= 2$

$j(x) = 2x + 1$

$j(x+h) = 2(h + x) + 1$

$= 2h + 2x + 3$

$\frac{j(x+h) - j(x)}{h} = \frac{(2h+2x+3) - (2x+1)}{h}$

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

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

$= 2$

$j(x) = 2x + 1$

$j(x+h) = 2(h + x) + 1$

$= 2h + 2x + 1$

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

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

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

$= 2$

$j(x) = 2x + 1$

$j(x+h) = 2(h + x) + 1$

$= 2h + 2x - 1$

$\frac{j(x+h) - j(x)}{h} = \frac{(2h+2x+5) - (2x+1)}{h}$

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

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

$= 2$

Solution