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

$x(u) = 5u + 9$

$x(u) = 5u + 9$

$x(u+h) = 5(h+u) + 9$

$= 5h + 5u + 9$

$\frac{x(u+h) - x(u)}{h} = \frac{(5h+5u+9) - (5(u+1)+9)}{h}$

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

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

$= 5$

$x(u) = 5u + 9$

$x(u+h) = 5(h+u) + 9$

$= 5h + 5u + 14$

$\frac{x(u+h) - x(u)}{h} = \frac{(5h+5u+14) - (5u+9)}{h}$

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

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

$= 5$

$x(u) = 5u + 9$

$x(u+h) = 5(h+u) + 9$

$= 5h + 5u + 9$

$\frac{x(u+h) - x(u)}{h} = \frac{(5h+5u+9) - (5u+9)}{h}$

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

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

$= 5$

$x(u) = 5u + 9$

$x(u+h) = 5(h+u) + 9$

$= 5h + 5u + 4$

$\frac{x(u+h) - x(u)}{h} = \frac{(5h+5u+19) - (5u+9)}{h}$

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

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

$= 5$

Solution