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

$u(y) = 5y + 5$

$u(y) = 5y + 5$

$u(y+h) = 5(h + y) + 5$

$= 5h + 5y + 5$

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

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

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

$= 5$

$u(y) = 5y + 5$

$u(y+h) = 5(h + y) + 5$

$= 5h + 5y + 10$

$\frac{u(y+h) - u(y)}{h} = \frac{(5h + 5y + 10) - (5y + 5)}{h}$

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

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

$= 5$

$u(y) = 5y + 5$

$u(y+h) = 5(h + y) + 5$

$= 5h + 5y + 5$

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

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

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

$= 5$

$u(y) = 5y + 5$

$u(y+h) = 5(h + y) + 5$

$= 5h + 5y$

$\frac{u(y+h) - u(y)}{h} = \frac{(5h + 5y + 15) - (5y + 5)}{h}$

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

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

$= 5$

Solution