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

$a(y) = 5y + 3$

$a(y) = 5y + 3$

$a(y+h) = 5(h + y) + 3$

$= 5h + 5y + 3$

$$\frac{a(y+h) - a(y)}{h} = \frac{(5h+5y+3) - (5(y+1)+3)}{h}$$

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

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

$= 5$

$a(y) = 5y + 3$

$a(y+h) = 5(h + y) + 3$

$= 5h + 5y + 8$

$$\frac{a(y+h) - a(y)}{h} = \frac{(5h+5y+8) - (5y+3)}{h}$$

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

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

$= 5$

$a(y) = 5y + 3$

$a(y+h) = 5(h + y) + 3$

$= 5h + 5y + 3$

$$\frac{a(y+h) - a(y)}{h} = \frac{(5h+5y+3) - (5y+3)}{h}$$

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

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

$= 5$

$a(y) = 5y + 3$

$a(y+h) = 5(h + y) + 3$

$= 5h + 5y - 2$

$$\frac{a(y+h) - a(y)}{h} = \frac{(5h+5y+13) - (5y+3)}{h}$$

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

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

$= 5$

Solution