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

$a(r) = 3r + 3$

$a(r) = 3r + 3$

$a(r+h) = 3(h + r) + 3$

$= 3h + 3r + 3$

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

$$= \frac{3h}{h}$$

$$= \frac{h(3)}{h}$$

$= 3$

$a(r) = 3r + 3$

$a(r+h) = 3(h + r) + 3$

$= 3h + 3r + 6$

$$\frac{a(r+h) - a(r)}{h} = \frac{(3h + 3r + 6) - (3r + 3)}{h}$$

$$= \frac{3h}{h}$$

$$= \frac{h(3)}{h}$$

$= 3$

$a(r) = 3r + 3$

$a(r+h) = 3(h + r) + 3$

$= 3h + 3r + 3$

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

$$= \frac{3h}{h}$$

$$= \frac{h(3)}{h}$$

$= 3$

$a(r) = 3r + 3$

$a(r+h) = 3(h + r) + 3$

$= 3h + 3r$

$$\frac{a(r+h) - a(r)}{h} = \frac{(3h + 3r + 9) - (3r + 3)}{h}$$

$$= \frac{3h}{h}$$

$$= \frac{h(3)}{h}$$

$= 3$

Solution