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

$r(y) = 3y + 2$

$r(y) = 3y + 2$

$r(y+h) = 3(h + y) + 2$

$= 3h + 3y + 2$

$\frac{r(y+h) - r(y)}{h} = \frac{(3h+3y+2) - (3(y+1)+2)}{h}$

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

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

$= 3$

$r(y) = 3y + 2$

$r(y+h) = 3(h + y) + 2$

$= 3h + 3y + 5$

$\frac{r(y+h) - r(y)}{h} = \frac{(3h+3y+5) - (3y+2)}{h}$

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

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

$= 3$

$r(y) = 3y + 2$

$r(y+h) = 3(h + y) + 2$

$= 3h + 3y + 2$

$\frac{r(y+h) - r(y)}{h} = \frac{(3h+3y+2) - (3y+2)}{h}$

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

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

$= 3$

$r(y) = 3y + 2$

$r(y+h) = 3(h + y) + 2$

$= 3h + 3y - 1$

$\frac{r(y+h) - r(y)}{h} = \frac{(3h+3y+8) - (3y+2)}{h}$

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

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

$= 3$

Solution