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

$r(k) = 8k + 8$

$r(k) = 8k + 8$

$r(k+h) = 8(h + k) + 8$

$= 8h + 8k + 8$

$\frac{r(k+h) - r(k)}{h} = \frac{(8h+8k+8) - (8(k+1)+8)}{h}$

$= \frac{8h}{h}$

$= \frac{h(8)}{h}$

$= 8$

$r(k) = 8k + 8$

$r(k+h) = 8(h + k) + 8$

$= 8h + 8k + 16$

$\frac{r(k+h) - r(k)}{h} = \frac{(8h+8k+16) - (8k+8)}{h}$

$= \frac{8h}{h}$

$= \frac{h(8)}{h}$

$= 8$

$r(k) = 8k + 8$

$r(k+h) = 8(h + k) + 8$

$= 8h + 8k + 8$

$\frac{r(k+h) - r(k)}{h} = \frac{(8h+8k+8) - (8k+8)}{h}$

$= \frac{8h}{h}$

$= \frac{h(8)}{h}$

$= 8$

$r(k) = 8k + 8$

$r(k+h) = 8(h + k) + 8$

$= 8h + 8k$

$\frac{r(k+h) - r(k)}{h} = \frac{(8h+8k+24) - (8k+8)}{h}$

$= \frac{8h}{h}$

$= \frac{h(8)}{h}$

$= 8$

Solution