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

$f(s) = 8s + 6$

$f(s) = 8s + 6$

$f(s+h) = 8(h + s) + 6$

$= 8h + 8s + 6$

$\frac{f(s+h) - f(s)}{h} = \frac{(8h+8s+6) - (8(s+1)+6)}{h}$

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

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

$= 8$

$f(s) = 8s + 6$

$f(s+h) = 8(h + s) + 6$

$= 8h + 8s + 14$

$\frac{f(s+h) - f(s)}{h} = \frac{(8h+8s+14) - (8s+6)}{h}$

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

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

$= 8$

$f(s) = 8s + 6$

$f(s+h) = 8(h + s) + 6$

$= 8h + 8s + 6$

$\frac{f(s+h) - f(s)}{h} = \frac{(8h+8s+6) - (8s+6)}{h}$

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

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

$= 8$

$f(s) = 8s + 6$

$f(s+h) = 8(h + s) + 6$

$= 8h + 8s - 2$

$\frac{f(s+h) - f(s)}{h} = \frac{(8h+8s+22) - (8s+6)}{h}$

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

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

$= 8$

## Solution