1. Which of the following are correct calculations for difference quotient of:
$n(f) = 4f + 9$

$n(f) = 4f + 9$
$n(f+h) = 4(f+h) + 9$
$= 4f + 4h + 9$
$\frac{n(f+h)-n(f)}{h} = \frac{(4f+4h+9)-(4(f+1)+9)}{h}$
$= \frac{4h}{h}$
$= \frac{h(4)}{h}$
$= 4$

$n(f) = 4f + 9$
$n(f+h) = 4(f+h) + 9$
$= 4f + 4h + 13$
$\frac{n(f+h)-n(f)}{h} = \frac{(4f+4h+13)-(4f+9)}{h}$
$= \frac{4h}{h}$
$= \frac{h(4)}{h}$
$= 4$

$n(f) = 4f + 9$
$n(f+h) = 4(f+h) + 9$
$= 4f + 4h + 9$
$\frac{n(f+h)-n(f)}{h} = \frac{(4f+4h+9)-(4f+9)}{h}$
$= \frac{4h}{h}$
$= \frac{h(4)}{h}$
$= 4$

$n(f) = 4f + 9$
$n(f+h) = 4(f+h) + 9$
$= 4f + 4h + 5$
$\frac{n(f+h)-n(f)}{h} = \frac{(4f+4h+17)-(4f+9)}{h}$
$= \frac{4h}{h}$
$= \frac{h(4)}{h}$
$= 4$

Solution