6. Which of the following are correct calculations for difference quotient of:
$x(f) = 5f + 6$

$x(f) = 5f + 6$
$x(f+h) = 5(f+h) + 6$
$= 5f + 5h + 6$
$\frac{x(f+h) - x(f)}{h} = \frac{(5f+5h+6) - (5(f+1)+6)}{h}$
$= \frac{5h}{h}$
$= \frac{h(5)}{h}$
$= 5$

$x(f) = 5f + 6$
$x(f+h) = 5(f+h) + 6$
$= 5f + 5h + 11$
$\frac{x(f+h) - x(f)}{h} = \frac{(5f+5h+11) - (5f+6)}{h}$
$= \frac{5h}{h}$
$= \frac{h(5)}{h}$
$= 5$

$x(f) = 5f + 6$
$x(f+h) = 5(f+h) + 6$
$= 5f + 5h + 6$
$\frac{x(f+h) - x(f)}{h} = \frac{(5f+5h+6) - (5f+6)}{h}$
$= \frac{5h}{h}$
$= \frac{h(5)}{h}$
$= 5$

$x(f) = 5f + 6$
$x(f+h) = 5(f+h) + 6$
$= 5f + 5h + 1$
$\frac{x(f+h) - x(f)}{h} = \frac{(5f+5h+16) - (5f+6)}{h}$
$= \frac{5h}{h}$
$= \frac{h(5)}{h}$
$= 5$

Solution