6. Which of the following are correct calculations for difference quotient of:
$x(g) = 2g + 5$

$x(g) = 2g + 5$
$x(g+h) = 2(g+h) + 5$
$= 2g + 2h + 5$
$\frac{x(g+h) - x(g)}{h} = \frac{(2g+2h+5) - (2(g+1)+5)}{h}$
$= \frac{2h}{h}$
$= \frac{h(2)}{h}$
$= 2$

$x(g) = 2g + 5$
$x(g+h) = 2(g+h) + 5$
$= 2g + 2h + 7$
$\frac{x(g+h) - x(g)}{h} = \frac{(2g+2h+7) - (2g+5)}{h}$
$= \frac{2h}{h}$
$= \frac{h(2)}{h}$
$= 2$

$x(g) = 2g + 5$
$x(g+h) = 2(g+h) + 5$
$= 2g + 2h + 5$
$\frac{x(g+h) - x(g)}{h} = \frac{(2g+2h+5) - (2g+5)}{h}$
$= \frac{2h}{h}$
$= \frac{h(2)}{h}$
$= 2$

$x(g) = 2g + 5$
$x(g+h) = 2(g+h) + 5$
$= 2g + 2h + 3$
$\frac{x(g+h) - x(g)}{h} = \frac{(2g+2h+9) - (2g+5)}{h}$
$= \frac{2h}{h}$
$= \frac{h(2)}{h}$
$= 2$

## Solution