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

$t(v) = 4v + 2$

$t(v) = 4v + 2$

$t(v+h) = 4(h + v) + 2$

$= 4h + 4v + 2$

$$\frac{t(v+h) - t(v)}{h} = \frac{(4h+4v+2) - (4(v+1)+2)}{h}$$

$$= \frac{4h}{h}$$

$$= \frac{h(4)}{h}$$

$= 4$

$t(v) = 4v + 2$

$t(v+h) = 4(h + v) + 2$

$= 4h + 4v + 6$

$$\frac{t(v+h) - t(v)}{h} = \frac{(4h+4v+6) - (4v+2)}{h}$$

$$= \frac{4h}{h}$$

$$= \frac{h(4)}{h}$$

$= 4$

$t(v) = 4v + 2$

$t(v+h) = 4(h + v) + 2$

$= 4h + 4v + 2$

$$\frac{t(v+h) - t(v)}{h} = \frac{(4h+4v+2) - (4v+2)}{h}$$

$$= \frac{4h}{h}$$

$$= \frac{h(4)}{h}$$

$= 4$

$t(v) = 4v + 2$

$t(v+h) = 4(h + v) + 2$

$= 4h + 4v - 2$

$$\frac{t(v+h) - t(v)}{h} = \frac{(4h+4v+10) - (4v+2)}{h}$$

$$= \frac{4h}{h}$$

$$= \frac{h(4)}{h}$$

$= 4$

Solution