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

$t(f) = 8f + 6$

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

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

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

$t(f) = 8f + 6$
$t(f+h) = 8(f+h) + 6$
$= 8f + 8h - 2$
$$\frac{t(f+h) - t(f)}{h} = \frac{(8f + 8h + 22) - (8f + 6)}{h}$$
$$= \frac{8h}{h}$$
$$= \frac{h(8)}{h}$$
$$= 8$$

Solution