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6. Which of the following are correct calculations for difference quotient of: y(t) = 3t + 2 y(t) = 3t + 2 y(t+h) = 3(h+t) + 2 = 3h + 3t + 2 y(t+h) - y(t) = \frac{(3h+3t+2) - (3(t+1)+2)}{(3h+3t+2) - (3(t+1)+2)}
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```
y(t) = 3t + 2
y(t+h) = 3(h+t) + 2
= 3h + 3t + 5
\frac{y(t+h) - y(t)}{h} = \frac{(3h+3t+5) - (3t+2)}{h}
= \frac{3h}{h}
= \frac{h(3)}{h}
= 3
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y(t) = 3t + 2

=3 h + 3 t + 2

y(t+h) = 3(h+t) + 2

= 3 h

 $=\frac{h(3)}{1}$

=3

```
\frac{y(t+h)-y(t)}{h} = \frac{(3h+3t+2)-(3t+2)}{h}
= \frac{3h}{h}
= \frac{h(3)}{h}
= 3
y(t) = 3t + 2
y(t+h) = 3(h+t) + 2
= 3h + 3t - 1
\frac{y(t+h)-y(t)}{h} = \frac{(3h+3t+8)-(3t+2)}{h}
```

Solution

_ <u>3 h</u>

 $=\frac{h(3)}{\cdot}$

=3