Tuesday, September 19, 2017 11:00 AM

E.g. Given that  

$$\begin{array}{l}
\begin{array}{c}
20 & \text{if } 0 \leq t \leq 60 \\
20 + 0.4(t - 60) & \text{if } \\
60 < t < 1000 \\
20000 & \text{if } t \geq 1000
\end{array}$$
Evaluate ((40) = 20  
(70) = 20 + 0.4(70 - 60) \\
= 20 + (0.4) \cdot 10 = 24 \\
(1001) = 20000
\end{array}

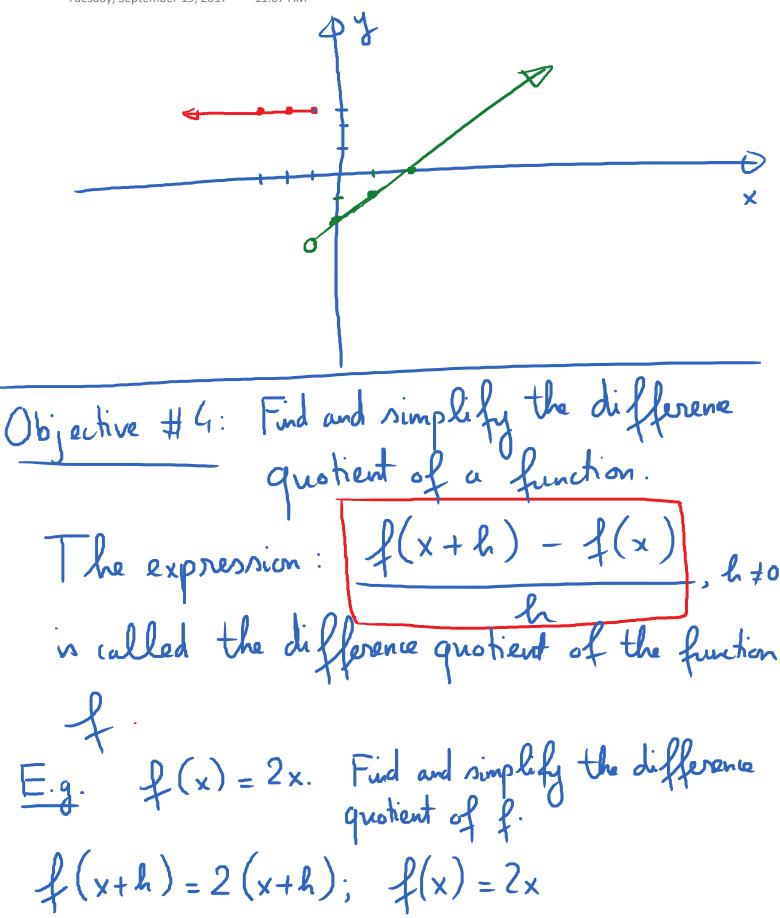
E.g. Graph a piecewise function  

$$\begin{array}{c}
f(x) = \begin{cases}
3 & \text{if } x \leq -1 \\
x - 2 & \text{if } x > -1
\end{aligned}$$
Graph the pieces of the function  

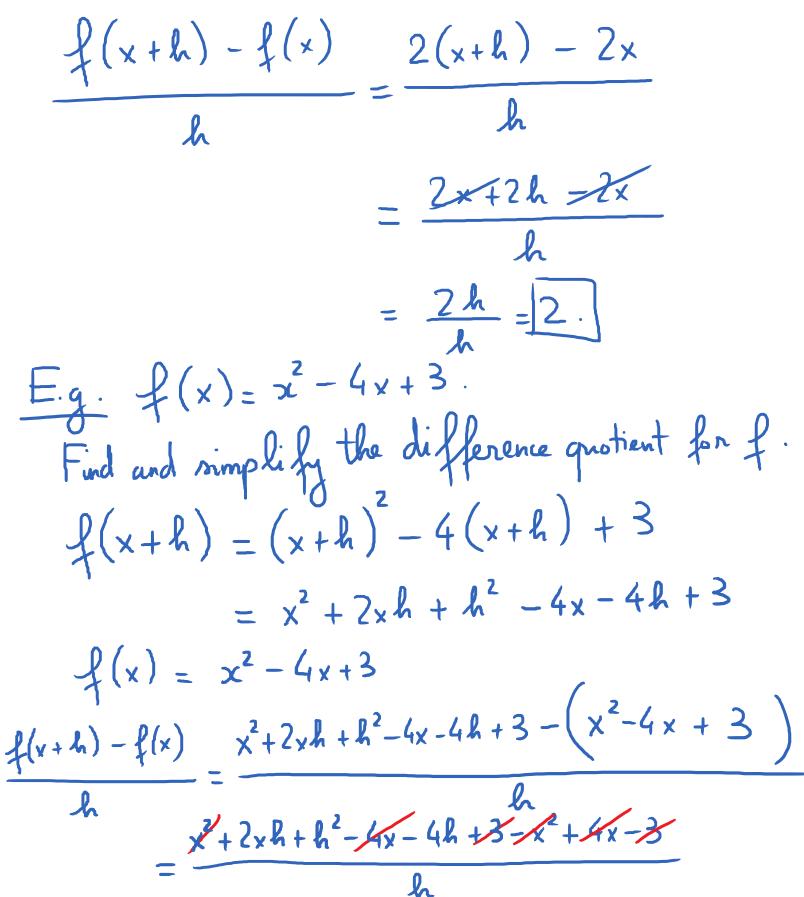
$$\begin{array}{c}
x & \text{if}(x) = 3 \\
-1 & 3 & -(-1,3) \\
-2 & 3 & -(-1,3)
\end{array}$$

$$\begin{array}{c}
20 & \text{if } 0 \leq t \leq 60 \\
20 + 0.4(t - 60) & \text{if } 0 \leq t \leq 1000
\end{array}$$
Evaluate ((40) = 20  

$$\begin{array}{c}
(70) = 20 + 0.4(70 - 60) \\
= 20 + (0.4) \cdot 10 = 24 \\
(1001) = 20000
\end{array}$$



Tuesday, September 19, 2017 11:15 AM



Tuesday, September 19, 2017 11:20 AM

$$= \frac{2 \times h + h^{2} - 4h}{h} = \frac{h(2 \times + h - 4)}{k}$$
$$= \frac{2 \times + h - 4}{k}$$