

2a) $f(x) = 60x$
 $g(x) = 210 + 60(x) \left(1 - \frac{25}{100}\right)$
 $g(x) = 45x + 210.$

b)

x	0	2	14
$f(x)$	0	120	840
$g(x)$	210	300	840

c) Scale:
 x -axis: 1cm \rightarrow 2 sessions
 y -axis: 1cm \rightarrow 50 €.

3a) $f(x) = g(x)$
 $60x = 45x + 210$
 $15x = 210$
 $x = 14$ Session.

This means that if we attend theatre 14 times then sum paid in both options is the same.

b) \rightarrow For $x < 14$:
 (d_1) is lower than (d_2)
hence option-1 is more advantageous.

\rightarrow For $x > 14$:
 (d_2) is lower than (d_1) hence option-2 is more advantageous.

