Question 2 (continued) e. Enter $y_2 = 35000 + \dfrac{35000 \times 16 \times x}{100}$ in the graphics calculator. (1 mark) Keep the y_1 equation from (c) in the calculator. Go to table. When $x = 14, y_1 > y_2 \ \therefore 2018$ (1 mark)	

Question 3
a. i.
 $2000
 	
                 (1 mark)
	a. ii.
	
	$1 + \dfrac{9.8}{12 \times 100}$
	
	$= 1.008$
	                 (1 mark)

b.
Use graphics calculator
Press Apps Finance Enter TVM Solver Enter
$N =$
$I = 9.8$
$PV = 200000$
$PMT = -2000$
$FV = 0$
$P / Y = 12$
$C / Y = 12$
Put cursor on N and press alpha solve.
$N = 208.58$ months $= 17$ years to the nearest year.
                 (1 mark)
	c.
	Amount repaid
	$= 208.5755592 \times 2000 = 417151.1184$
	Interest $= 417151.1184 - 200000$
	$= \$217,151.12$ to the nearest cent.
	                 (1 mark)