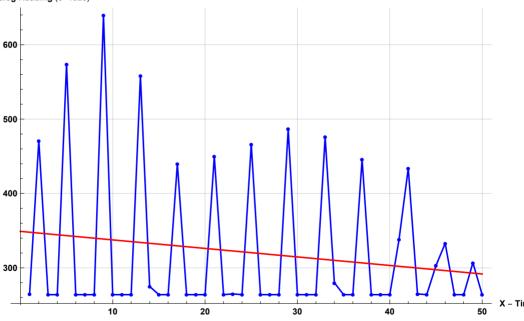
```
ln[1]:= data = \{\{1, 347\}, \{2, 264\}, \{3, 264\}, \{4, 308\}, \{5, 316\}, \{6, 264\}, \{7, 264\}, \{8, 376\}, \{6, 264\}, \{7, 264\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}, \{8, 376\}
                                        \{9, 264\}, \{10, 264\}, \{11, 264\}, \{12, 470\}, \{13, 313\}, \{14, 264\}, \{15, 264\},
                                        {16, 316}, {17, 264}, {18, 264}, {19, 322}, {20, 264}, {21, 264}, {22, 264},
                                         {23, 331}, {24, 264}, {25, 264}, {26, 264}, {27, 317}, {28, 264}, {29, 264},
                                         {30, 264}, {31, 322}, {32, 264}, {33, 264}, {34, 363}, {35, 264}, {36, 264},
                                         \{37, 264\}, \{38, 387\}, \{39, 264\}, \{40, 264\}, \{41, 272\}, \{42, 342\}, \{43, 264\},
                                         {44, 264}, {45, 347}, {46, 264}, {47, 264}, {48, 264}, {49, 340}, {50, 264}};
                       lm = LinearModelFit[data, x, x]
Out[2]= FittedModel 296.986 - 0.273181 x
  In[3]:= Show[ListLinePlot[data, PlotStyle → Blue, PlotMarkers → {Automatic, 6},
                                  GridLines \rightarrow Automatic], Plot[lm[x], {x, 0, 50}, PlotStyle \rightarrow Red],
                             AxesLabel → {"X - Time", "Y - PPG Analog Reading (0-1023)"},
                             PslotLabel → lm["BestFit"]]
                       Y - PPG Analog Reading (0-1023)
                                                           450
                                                           400
Out[3]=
                                                           350
                                                           300
                                                                                                                                                                                                                                                                                                                                                                                                                   X - Time
  ln[4]:= data2 = \{\{1, 265\}, \{2, 471\}, \{3, 264\}, \{4, 264\}, \{5, 574\}, \{6, 264\}, \{7, 264\}, \{7, 264\}, \{7, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264\}, \{8, 264
                                        \{8, 264\}, \{9, 640\}, \{10, 264\}, \{11, 264\}, \{12, 264\}, \{13, 558\}, \{14, 275\},
                                        \{15, 264\}, \{16, 264\}, \{17, 440\}, \{18, 264\}, \{19, 264\}, \{20, 264\},
                                        {21, 450}, {22, 264}, {23, 265}, {24, 264}, {25, 466}, {26, 264},
                                         {27, 264}, {28, 264}, {29, 487}, {30, 264}, {31, 264}, {32, 264},
                                         {33, 476}, {34, 280}, {35, 264}, {36, 264}, {37, 446}, {38, 264},
```

{39, 264}, {40, 264}, {41, 338}, {42, 434}, {43, 265}, {44, 264}, {45, 303}, {46, 333}, {47, 264}, {48, 264}, {49, 307}, {50, 264}};

In[6]:= lm2 = LinearModelFit[data2, x, x]
Out[6]= FittedModel[349.08 - 1.14588 x]

Y - PPG Analog Reading (0-1023)



Out[7]=