Work sheet

3.5

1) Salary Last Year
   \[ X = \text{salary} \]
   \[ 3) X + 0.09X = 21,940 \]
   \[ 1.09X = 21,940 \]
   \[ X = \frac{21,940}{1.09} \]
   \[ X = 20,124.74 \]

Turbine Section 3.2 (a)

One # is 3. More than Twice a 2nd #. The sum is 27.

Find 2 #s:
   \[ x = 1st \] #
   \[ 3 + 2x \] 2nd #
   \[ \text{Write Equation: Sum is 27} \]
   \[ X + 2x + 3 = 27 \]
   \[ 3x + 3 = 27 \]
   \[ 3x = 24 \]
   \[ x = 8 \] 1st #
   \[ 2x + 3 = 17 \] 2nd #

Find # of Years to Drop to 2200 Employed

\[ X = \# \text{ of Years} \]

Today

\[ 4600 - 250x = 2200 \]

\[ -250x = -2400 \]

\[ x = 9.6 \text{ yrs} \]

Distance = Rate \cdot Time

Distance: Rate \cdot Time
\[ D = 60 \text{ mph} \cdot 3 \text{ hr} \]
\[ D = 180 \text{ miles} \]

Work sheet

\[ \frac{12 \text{ parts}}{\text{min}} \cdot \frac{60 \text{ min}}{1 \text{ hr}} = 720 \text{ parts/hr} \]
\[ 8 \text{ hr} \cdot \frac{20 \text{ parts}}{1 \text{ hr}} = 5760 \text{ parts} \]