Section 2.3

1) This example will help you do exercises 1-4 on p. 81-2.
The relationship between the Celsius and Fahrenheit temperature scales is known to be linear.
The boiling point of water is 212°F or 100°C. The freezing point of water is 32°F or 0°C.
a) Find an equation giving the Celsius temperature in terms of the Fahrenheit temperature.
b) Convert 90°F to Celsius.
c) Convert 15°C to Fahrenheit.

2) This example will help you do exercises 27-34 on p. 83-4.
The profit (in millions of dollars) from the sale of x million units of LiquiMints is given by
p = .6x - 19.7. The cost is given by c = .8x + 13.9.
a) Find the revenue equation.
b) What is the revenue from selling 5 million units?
c) What is the break-even point?

3) This example will help you do exercises 45-46 on p. 85.
Let the supply and demand for a certain commodity be given by:
supply: \( p = \frac{5}{4} q \)
and demand: \( p = 20 - \frac{3}{4} q \)
where \( p \) is in dollars.
a) Find the price for a demand of 8 units.
b) Find the demand for the commodity at a price of $11.
c) Find the supply when the price is $15.
d) Graph both equations on the same axes.
e) Find the equilibrium demand.
f) Find the equilibrium price.

Section 2.5

1) This example will help you do exercises 57-62 on p. 102.
The cost to produce x kumquats is \( C = 60x + 450 \), while the revenue is \( R = 90x \). Find all values of x so that the grower will at least break even.