1) \( \left( -\infty, -\frac{17}{2} \right] \)  

2) There are two solutions; one positive, the other zero. 
\( x = 0 \quad x = 16 \)  

3) \( \{ x | -2 \leq x \leq 18 \} \)  

4) \(-m^2 - 15m + 13\)  

5) I and II only  

6) \((6x + 1)\)  

7) \((4x - 3)\)  

8) \(3xy(3x + 10)(3x - 10)\)  

9) \(x = -\frac{3}{2}\) (other solution is \(x = 1\))  

10) The length of the garden is between 8 and 11 feet.  
\(10 \text{ feet}\)  

11) \(\frac{a}{a-b}\)  

12) \(\frac{y+8}{y(y+4)}\)  

13) The solution is less than -20.  \(y = -23\)  

14) 1\(\frac{1}{2}\) hours  

15) \(y = \frac{10}{x}, \quad y = \frac{10}{3}\)