Homework #17

Solve:

1. $x^2 + 3x - 130 = 0$
2. $x^2 = 9x$
3. $7x - 9 = 10x + 11$
4. $\frac{m+3}{4} = m + 8$
5. $x + 5 = \frac{2x+18}{x}$
6. $10x = x^2 - 39$
7. $(x - 2)^2 = 49$
8. $3(2 - x) = 4(1 + x)$

Solve:

9. $x + 3 = \frac{48}{x+1}$
10. $4 = \sqrt{2 - t}$
11. $x = \frac{18}{x} + 7$
12. $8 - b^2 = 2b$
13. $\frac{3}{x+2} = \frac{4}{x-1}$
14. $\frac{x}{x+5} = \frac{x}{x-2}$
15. $\frac{k}{1-k} = \frac{5}{k-1}$
16. $3^{x+1} = 81$

Make x the subject:

17. $y = \sqrt{x^2 + 6}$
18. $y = \frac{5}{x-2}$
19. $y = {}^{-}5x + 3$
20. $y \leq 2x + 7$
21. $y = (x - 7)^2$
22. $\frac{1}{k+2} = \frac{t}{x-a}$
23. $y = \sqrt{\frac{\pi}{x^2}}$
24. $y = x^2 + 8x + 16$