Algebra 2
8.6 Factoring ax² Worksheet

Factor each expression.

1.) $3n^2 - 8n - 3$  
2.) $5a^2 - 22a + 8$  
3.) $2x^2 + 13x + 6$

4.) $6t^2 + 21t - 12$  
5.) $9b^2 - 65b + 14$  
6.) $5z^2 + 11z + 6$

7.) $7r^2 - 9r - 10$  
8.) $2m^2 + m - 21$  
9.) $3g^2 + 20g + 32$

10.) The area of a rectangular driveway is $2x^2 + 15x + 25$. The width of the driveway is $x + 5$. What is the length of the driveway?

11.) The area of a rectangular floor is $8x^2 + 6x - 20$. The width of the floor is $2x + 4$. What is the length of the floor?

12.) The area of a rectangular desktop is $6x^2 - 3x - 3$. The width of the desktop is $2x + 1$. What is the length of the desktop?