1. (1 pt) The expression $3(5 - 5x) + 3(x - 3)$ equals $Ax + B$
where $A$ equals: ___ and $B$ equals: ___

[NOTE: Your answers cannot be algebraic expressions.]

2. (1 pt) The expression $4(5x^2 + 7x + 5) - 2(6x^2 + 7x + 2)$
equals $Ax^2 + Bx + C$
where $A$ equals: ___ and $B$ equals: ___

3. (1 pt) The expression $(7x + 5)(2x - 3)$ equals $Ax^2 + Bx + C$
where $A$ equals: ___ and $B$ equals: ___ and $C$ equals: ___

4. (1 pt) The expression $(3t - 2)(7t + 7) + 7t - 3$ equals $At^2 + Bt + C$
where $A$ equals: ___ and $B$ equals: ___ and $C$ equals: ___

5. (1 pt) The expression $(3\sqrt{x} + 3\sqrt{y})(3\sqrt{x} - 3\sqrt{y})$ equals $Ax + By$
where $A$ equals: ___ and $B$ equals: ___

6. (1 pt) The expression $(6x + 7)^2$ equals $Ax^2 + Bx + C$
where $A$ equals: ___ and $B$ equals: ___ and $C$ equals: ___

7. (1 pt) The expression $(x - 6)(x^2 + 7x + 2)$ equals $Ax^3 + Bx^2 + Cx + D$
where $A$ equals: ___ and $B$ equals: ___ and $C$ equals: ___ and $D$ equals: ___

8. (1 pt) Factor the polynomial $x^2 + 8x + 15$. Your answer can be written as $(x + A)(x + B)$ where $A < B$
and $A$ equals: ___ and $B$ equals: ___

9. (1 pt) Factor the polynomial $x^2 + 6x + 8$. Your answer can be written as $(x + A)(x + B)$ where $A < B$
and $A$ equals: ___ and $B$ equals: ___

10. (1 pt) Factor the polynomial $x^2 + 1x - 12$. Your answer can be written as $(x + A)(x + B)$ where $A < B$
and $A$ equals: ___ and $B$ equals: ___

11. (1 pt) Factor the polynomial $10x^2 + 29x + 10$. Your answer can be written as $(5x + B)(2x + C)$ with $B$, $C$, and $D$- integers
where $B$ equals: ___ and $C$ equals: ___ and $D$ equals: ___

12. (1 pt) Factor the polynomial $x^2 + 11x^2 + 24$. Your answer can be written as $(x^2 + A)(x^2 + B)$ where $A < B$
and $A$ equals: ___ and $B$ equals: ___

13. (1 pt) Factor the polynomial $t^5 + 4t^4 - 32t^3$. Your answer can be written as $t^N(t + A)(t + B)$ where $A < B$
$N$ equals: ___ and $A$ equals: ___ and $B$ equals: ___

14. (1 pt) Factor the polynomial $x^3 - 8$. Your answer can be written as $(x - A)(x^2 + Bx + C)$
where $A$ equals: ___ and $B$ equals: ___ and $C$ equals: ___