

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 _____ x^2 + _____ x + _____

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 $(3t - 3)(7t + 7) + 7t - 3$ 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 $(5x + B)(Cx + D)$ with $B, C,$ and D - integers
 where B equals: _____
 and C equals: _____
 and D equals: _____

12.(1 pt) Factor the polynomial $x^4 + 11x^2 + 24$. 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: _____