

NAME _____ CLASS _____

DATE: / /

Prepared by Murad Jawaada

1. Expand: $(x - 5)^2$

a. $x^2 + 10x + 25$

b. $x^2 - 25$

c. $x^2 - 10x + 25$

d. $x^2 - 5x + 25$

4. Expand: $(6x - 4)^2$

a. $36x^2 + 48x + 16$

b. $36x^2 - 48x + 16$

c. $12x^2 - 48x + 16$

d. $36x^2 - 24x + 16$

9. Expand: $(2x - \frac{3}{2})^2$

a. $4x^2 - 6x + \frac{9}{4}$

b. $4x^2 - 3x + \frac{9}{4}$

c. $2x^2 - 6x + \frac{9}{4}$

d. $4x^2 + 6x + \frac{9}{4}$

12. Expand: $(\sqrt{x} + 4)^2$

a. $x + 4\sqrt{x} + 16$

b. $\sqrt{x} + 8x + 16$

c. $x + 16$

d. $x + 8\sqrt{x} + 16$

16. Expand: $(7x - 2)^2$

a. $49x^2 - 14x + 4$

b. $14x^2 - 28x + 4$

c. $49x^2 + 28x + 4$

d. $49x^2 - 28x + 4$

17. Expand: $(x + \sqrt{7})^2$

a. $x^2 + \sqrt{7}x + 7$

b. $x^2 + 2\sqrt{7}x + 7$

c. $x^2 + 2x + 7$

d. $x^2 + 7$

2. Expand: $(5x - 4)^2$

a. $25x^2 - 20x + 16$

b. $25x^2 - 40x + 16$

c. $10x^2 - 40x + 16$

d. $25x^2 + 40x + 16$

5. Expand: $(2x + 7)^2$

a. $4x^2 + 28x + 49$

b. $4x^2 + 14x + 49$

c. $2x^2 + 28x + 49$

d. $4x^2 + 28x + 14$

8. Expand: $(x + \frac{1}{2})^2$

a. $x^2 + \frac{1}{2}x + \frac{1}{4}$

b. $x^2 + x + \frac{1}{4}$

c. $x^2 + x + \frac{1}{2}$

d. $x^2 + \frac{1}{4}$

11. Expand: $(\sqrt{3}x + 2)^2$

a. $3x^2 + 2\sqrt{3}x + 4$

b. $6x^2 + 4\sqrt{3}x + 4$

c. $3x^2 + 4x + 4$

d. $3x^2 + 4\sqrt{3}x + 4$

13. Expand: $(\frac{x}{2} - 3)^2$

a. $\frac{x^2}{2} - 3x + 9$

b. $\frac{x^2}{4} - 3x + 9$

c. $\frac{x^2}{4} - 6x + 9$

d. $\frac{x^2}{4} - 6x + 3$

18. Expand: $(3x - \frac{1}{3})^2$

a. $9x^2 - x + \frac{1}{9}$

b. $3x^2 - 2x + \frac{1}{9}$

c. $9x^2 + 2x + \frac{1}{9}$

d. $9x^2 - 2x + \frac{1}{9}$

3. Multiply: $(x - 8)(x + 8)$

a. $x^2 + 64$

b. $x^2 - 16$

c. $x^2 + 16$

d. $x^2 - 64$

6. Multiply: $(x - 3)(x - 3)$

a. $x^2 + 6x + 9$

b. $x^2 - 9$

c. $x^2 - 6x + 9$

d. $x^2 - 3x + 9$

7. Multiply: $(3x + 5)(3x - 5)$

a. $9x^2 + 25$

b. $6x^2 - 25$

c. $9x^2 - 10x$

d. $9x^2 - 25$

10. Multiply: $(x - \sqrt{5})(x + \sqrt{5})$

a. $x^2 + 5$

b. $x^2 - \sqrt{5}$

c. $x^2 - 5$

d. $x^2 + \sqrt{5}$

14. Multiply: $(4x + \sqrt{2})(4x - \sqrt{2})$

a. $16x^2 + 2$

b. $8x^2 - 2$

c. $16x^2 - 2$

d. $16x^2 - \sqrt{2}$

15. Multiply: $(x - \frac{5}{3})(x + \frac{5}{3})$

a. $x^2 + \frac{25}{9}$

b. $x^2 - \frac{10}{3}$

c. $x^2 + \frac{10}{3}$

d. $x^2 - \frac{25}{9}$