

Expanding Binomials

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Date _____ Period _____

Expand completely.

1) $(m + 9)^2$

2) $(y + 5)^3$

3) $(m + 2)^4$

4) $(2 - y)^5$

5) $(x + 4)^4$

6) $(y + 4)^2$

7) $(x - 3)^5$

8) $(x - y)^3$

9) $(2 - u)^6$

10) $(y + x)^3$

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Expand completely.

1) $(m + 9)^2$

$$m^2 + 18m + 81$$

2) $(y + 5)^3$

$$y^3 + 15y^2 + 75y + 125$$

3) $(m + 2)^4$

$$m^4 + 8m^3 + 24m^2 + 32m + 16$$

4) $(2 - y)^5$

$$32 - 80y + 80y^2 - 40y^3 + 10y^4 - y^5$$

5) $(x + 4)^4$

$$x^4 + 16x^3 + 96x^2 + 256x + 256$$

6) $(y + 4)^2$

$$y^2 + 8y + 16$$

7) $(x - 3)^5$

$$x^5 - 15x^4 + 90x^3 - 270x^2 + 405x - 243$$

8) $(x - y)^3$

$$x^3 - 3x^2y + 3xy^2 - y^3$$

9) $(2 - u)^6$

$$64 - 192u + 240u^2 - 160u^3 + 60u^4 - 12u^5 + u^6$$

10) $(y + x)^3$

$$y^3 + 3y^2x + 3yx^2 + x^3$$