



Multiplying Polynomials

Name _____

Score _____

MP:23

Multiply the polynomials.

1) $-3n - 4m$, $m - 4 - 9n$

3) $5t^3 - 1$, $6t^3$

5) $8xy$, $2x - 3y + z$

7) $4 - 2s^2 - 5s$, $s + 3$

2) $a + 3b + 5c + d + 2ab$, $-3a$

4) 10 , $6 + h^4 - 2h^2 - h^3$

6) $1 - u^2 + v^2 - uv$, $u^2 - v^2$

8) $p^2 + 1 - 3p$, $-3p^2$



Multiplying Polynomials

Name _____

Score _____

Answer key

MP:23

Multiply the polynomials.

1) $-3n - 4m$, $m - 4 - 9n$

$$\underline{-4m^2 + 33mn + 27n^2 + 16m + 12n}$$

3) $5t^3 - 1$, $6t^3$

$$\underline{30t^6 - 6t^3}$$

5) $8xy$, $2x - 3y + z$

$$\underline{16x^2y - 24xy^2 + 8xyz}$$

7) $4 - 2s^2 - 5s$, $s + 3$

$$\underline{-2s^3 - 11s^2 - 11s + 12}$$

2) $a + 3b + 5c + d + 2ab$, $-3a$

$$\underline{-6a^2b - 3a^2 - 9ab - 15ac - 3ad}$$

4) 10 , $6 + h^4 - 2h^2 - h^3$

$$\underline{10h^4 - 10h^3 - 20h^2 + 60}$$

6) $1 - u^2 + v^2 - uv$, $u^2 - v^2$

$$\underline{-u^4 + 2u^2v^2 - u^3v + uv^3 + u^2 - v^2 - v^4}$$

8) $p^2 + 1 - 3p$, $-3p^2$

$$\underline{-3p^4 + 9p^3 - 3p^2}$$