



Multiplying Binomials

Name _____

Score _____

MP:16

Multiply the binomials.

1) $(2g + h^2)(g + h^2)(g - h^2)$

3) $(3 - 4t)(t - 1)(6 + 7t)$

5) $(y + 2)(x - 8)(3 - z)$

7) $(5 - d)(-1 - d^2)(d^3 + d)$

2) $(4w + uv)(3uv - w)(2uv + 7)$

4) $(10 + a^2)(a^2 - 1)(2a^2 - 9)$

6) $(7 + p)(3 + p)(q - 2)$

8) $(n^2 - 3)(n + 4)(n - n^3)$



Multiplying Binomials

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Answer key

MP:16

Multiply the binomials.

1) $(2g + h^2)(g + h^2)(g - h^2)$

$$-h^6 - 2gh^4 + g^2h^2 + 2g^3$$

2) $(4w + uv)(3uv - w)(2uv + 7)$

$$6u^3v^3 + 22u^2v^2w - 8uvw^2 + 21u^2v^2 + 77uvw - 28w^2$$

3) $(3 - 4t)(t - 1)(6 + 7t)$

$$-28t^3 + 25t^2 + 21t - 18$$

4) $(10 + a^2)(a^2 - 1)(2a^2 - 9)$

$$2a^6 + 9a^4 - 101a^2 + 90$$

5) $(y + 2)(x - 8)(3 - z)$

$$3xy - xyz - 24y + 8yz + 6x - 2xz - 48 + 16z$$

6) $(7 + p)(3 + p)(q - 2)$

$$p^2q - 2p^2 + 10pq - 20p + 21q - 42$$

7) $(5 - d)(-1 - d^2)(d^3 + d)$

$$d^6 - 5d^5 + 2d^4 - 10d^3 + d^2 - 5d$$

8) $(n^2 - 3)(n + 4)(n - n^3)$

$$-n^6 - 4n^5 + 4n^4 + 16n^3 - 3n^2 - 12n$$