Multiplying Binomials

Multiply the binomials by FOIL method.

1) $(5g + 6)(2h + 3)$

2) $(3d - 4)(3d - 4)$

3) $(3k - 1)(3k + 1)$

4) $(mn + 5)(6 - mn)$

5) $(7t + t^2)(t^3 - 4t^2)$

6) $(2u^2 - v^2)(-u^3 - 3v^3)$

7) $(x - 5y)(8x - y)$

8) $(q^4 - 7)(3 + q^4)$

Multiplying Binomials

Name _____

Score _____

Answer key

MP:13

Multiply the binomials by FOIL method.

1) (5g + 6) (2h + 3)

10gh + 15g + 12h + 18

2) (3d – 4) (3d – 4)

$9d^2$ – 24d + 16

3) (3k – 1) (3k + 1)

$9k^2$ – 1

4) (mn + 5) (6 – mn)

$-m^2n^2$ + mn + 30

5) (7t + t^2) (t^3 – $4t^2$)

t^5 + $3t^4$ – $28t^3$

6) ($2u^2$ – v^2) ($-u^3$ – $3v^3$)

$-2u^5$ – $6u^2v^3$ + u^3v^2 + $3v^5$

7) (x – 5y) (8x – y)

$8x^2$ – 41xy + $5y^2$

8) (q^4 – 7) (3 + q^4)

q^8 – $4q^4$ – 21