

Name : _____

Multiplying Binomials

Multi-variable: S1

Multiply the following.

1) $\left(\frac{1}{3}a^2b + 9\right)\left(\frac{1}{3}a^2b + 9\right)$

2) $(11vw - 2)(2 + 11vw)$

3) $(20rs - 8tu)(-1 - 4s)$

4) $(-12x^3 - 6x^2yz)(-6yz - 3x)$

5) $(-21c^4d^5 - 7d^3)(3c^4d^4 - d^2)$

6) $(m + 10n)(-4n + 2m)$

7) $(-2gh + 6)\left(-gh + \frac{1}{2}\right)$

8) $(-9 + 3p^6)(p - q^4)$