

Name : _____

Multiplying Trinomials

Multi-variable: S1

Multiply the following.

1) $\left(\frac{1}{3}rs^4t^2 - 4 - 12r^2s\right)\left(-6s + \frac{3}{4}r^2s^2 - \frac{1}{2}rs^5t^2\right)$

2) $(-2a^2 + \dots)c^2)$

3) $\left(-\frac{3}{2}u^5 - \dots\right)$

4) $(-5g^3h^4 + \dots)$

5) $(3p^2 + 6pq - 9q^2)(3q^2 + 2pq + p^2)$

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Multiplying Trinomials

Multiply the following.

$$1) \left(\frac{1}{3}rs^4t^2 - 4 - 12r^2s\right)\left(-6s + \frac{3}{4}r^2s^2 - \frac{1}{2}rs^5t^2\right)$$

$$-\frac{1}{6}r^2s^9t^4 + \frac{25}{4}r^3s^6t^2 - 9r^4s^3 + 69r^2s^2 + 24s$$

$$2) (-2a^2 + 4ab - 3b^2)(-7a^2 + 14ab - 3b^2)$$

$$-98a^5b^5 -$$

$$3) \left(-\frac{3}{2}u^5 - 4uv^2 + 3v^3\right)\left(-\frac{1}{2}u^5 - 4uv^2 + 3v^3\right)$$

$$-\frac{10}{3}v^{12} +$$

$$4) (-5g^3h^4 + 4g^2h^5 - 3gh^6)(-5g^3h^4 + 4g^2h^5 - 3gh^6)$$

$$15g^5h^9 - 22g^6h^6 - 9g^7h^3 - 28g^3h^5 + 12g^4h^2 + 12gh$$

$$5) (3p^2 + 6pq - 9q^2)(3q^2 + 2pq + p^2)$$

$$3p^4 + 12p^3q + 12p^2q^2 - 27q^4$$

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$$\frac{3}{4}w^4$$