

Name : \_\_\_\_\_

## Multiplying Trinomials

Single-variable: S3

Multiply the following.

1)  $(-2y^6 + 6y^5 + 4y^4)(y^4 - 3y^3 + 2y^2)$

2)  $(-b - \frac{1}{3})$

3)  $(5p^2 + 9)$

4)  $(-\frac{3}{2}r^3 -$

5)  $(3m^2 + 9m - 6m^3)(-2m^2 - 4m^3 + 6m)$

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**Multiplying Trinomials**

Multiply the following.

1)  $(-2y^6 + 6y^5 + 4y^4)(y^4 - 3y^3 + 2y^2)$

$$-2y^{10} + 12y^9 - 18y^8 + 8y^6$$

2)  $(-b - \frac{1}{3})$

$$-b^8 - 2b^5$$

3)  $(5p^2 + 9)$

$$5p^4 + 33p$$

4)  $(-\frac{3}{2}r^3 -$

$$-15r^{12} + 7r^9 + 47r^7 + 30r^6 + 22r^4 - 28r^2$$

5)  $(3m^2 + 9m - 6m^3)(-2m^2 - 4m^3 + 6m)$

$$24m^6 - 78m^4 + 54m^2$$

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