

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

## Multiplying Trinomials

Single-variable: S2

Multiply the following.

1)  $(5q^5 - 4q^3 - 2q^2)(-3q^6 + 7q^5 - 4q^4)$

2)  $\left(\frac{3}{2}g^2 + 6\right)$

3)  $(-14v^5 -$

4)  $\left(\frac{4}{7}s^4 + 2\right)$

5)  $(-5 + 10a^2 - a^4)(4a^2 + 8a^4 - a^6)$

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## Answer key

### Multiplying Trinomials

Single-variable: S2

Multiply the following.

1)  $(5q^5 - 4q^3 - 2q^2)(-3q^6 + 7q^5 - 4q^4)$

$$-15q^{11} + 35q^{10} - 8q^9 - 22q^8 + 2q^7 + 8q^6$$

2)  $\left(\frac{3}{2}g^2 + 6\right)$

$$-\frac{5}{2}g^4 - 13$$

3)  $(-14v^5 -$

$$-98v^{10} + 8$$

4)  $\left(\frac{4}{7}s^4 + 2\right)$

$$2s^8 + 25s^7 + 42s^6 + 15s^5 + 98s^4 + 28s^2$$

5)  $(-5 + 10a^2 - a^4)(4a^2 + 8a^4 - a^6)$

$$a^{10} - 18a^8 + 81a^6 - 20a^2$$

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