

# Simplifying Expressions

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

Simplify the following expressions.

$$3t + 4t - 3t^2 - t$$

$$4y + 3y^2 - 3y^2 - 2y^2$$

$$7 - 2x^2 + 3x^2 - 2x$$

$$3a^2 + b - 5b + b^2$$

$$4 - 3ty - 2 - 2ty$$

$$3y^2 + y + 3y - 2y$$

$$c - 3cd + 4 - cd$$

$$2e^2 + 3 + e - 2e^2$$

$$-2t^2 + 2t^2 + t + 4t$$

$$v + 5v^2 - v$$

$$2x^2 - 8 + 6$$

$$2 + 2n^2 - n^2$$

$$2r^2 - r + 3r - r^2$$

$$2v^2 - 4v + 5v - v^2$$

$$3 + x + 2x^2 - x^2$$

$$2a - 6 + a + 3a^2$$

$$3c + 3c^2 - 4c^2 + 4c$$

$$3d^3 + 4d^2 - d^3 - d^2$$

$$-3e - 5 + 2e - 9$$

$$x^3 + 3x + x^2 - 2x$$

$$2 + 4ab + 4 - 3a$$

# Answers

Simplify the following expressions.

$$3t + 4t - 3t^2 - t$$
$$-3t^2 + 6t$$

$$4y + 3y^2 - 3y^2 - 2y^2$$
$$-2y^2 + 4y$$

$$7 - 2x^2 + 3x^2 - 2x$$
$$x^2 - 2x + 7$$

$$3a^2 + b - 5b + b^2$$
$$3a^2 + b^2 - 4b$$

$$4 - 3ty - 2 - 2ty$$
$$-5ty + 2$$

$$3y^2 + y + 3y - 2y$$
$$3y^2 + 2y$$

$$c - 3cd + 4 - cd$$
$$-4cd + c + 4$$

$$2e^2 + 3 + e - 2e^2$$
$$e + 3$$

$$-2t^2 + 2t^2 + t + 4t$$
$$5t$$

$$v + 5v^2 - v$$
$$5v^2$$

$$2x^2 - 8 + 6$$
$$2x^2 - 2$$

$$2 + 2n^2 - n^2$$
$$n^2 + 2$$

$$2r^2 - r + 3r - r^2$$
$$r^2 + 2r$$

$$2v^2 - 4v + 5v - v^2$$
$$v^2 + v$$

$$3 + x + 2x^2 - x^2$$
$$x^2 + x + 3$$

$$2a - 6 + a + 3a^2$$
$$3a^2 + 3a - 6$$

$$3c + 3c^2 - 4c^2 + 4c$$
$$-c^2 + 7c$$

$$3d^3 + 4d^2 - d^3 - d^2$$
$$2d^3 + 3d^2$$

$$-3e - 5 + 2e - 9$$
$$-e - 14$$

$$x^3 + 3x + x^2 - 2x$$
$$x^3 + x^2 + x$$

$$2 + 4ab + 4 - 3a$$
$$4ab - 3a + 6$$