

Divide the following.

$$(1) \frac{9xy^2 - 6x^3}{3x}$$

$$(2) \frac{4x^2y^3 - 24xy^4}{2xy^2}$$

$$(3) \frac{6x^3 - 9x^4y}{3xy}$$

$$(4) \frac{-15x^2y^3 + 20x^3y^2}{-5x^2y^2}$$

$$(5) \frac{3x^2y - 4xy^2 + 6x^3y^3}{xy}$$

$$(6) \frac{7x^3y^2 - 14x^5y^3 + 28x^8y^5 - 21x^7y^6}{7x^3y^2}$$

$$(7) \frac{x^2 - 7x + 10}{x - 5}$$

$$(8) \frac{2y^2 - 5y - 6}{2y - 1}$$

$$(9) \frac{3x^2 - 13x + 4}{x - 4}$$

$$(10) \frac{2x^2 - 5x - 12}{2x + 3}$$

$$(11) \frac{2x^3 - 7x^2 + 11x - 4}{2x - 1}$$

$$(12) \frac{y^3 - 4y^2 - 2 + 5y}{y - 1}$$

Answer Key

(1) $3y^2 - 2x^2$

(2) $2xy - 12y^2$

(3) $\frac{2x^2}{y} - 3x^3$

(4) $3y - 4x$

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

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

(7) $x - 2$

(8) $y - 2 - \frac{8}{2y - 1}$

(9) $3x - 1$

(10) $x - 4$

(11) $x^2 - 3x + 4$

(12) $x^2 - 3x + 2$