

Exercise WS2.1

1.

(a) $13a$

(b) $-4a + 3b$

(c) $3x(1 + y)$

2.

(a) $6xy$

(b) -24

(c) $\frac{2xz}{y}$

Exercise WS2.2

1.

(a) $a(b + c)$

(b) $4u - v - 2 + w$

(c) $-2y(x + 3)$

2.

(a) $x(3 + y)$

(b) $a(y + 2x)$

(c) $-2y(x + 3)$

Exercise WS2.3

1.

(a) $\frac{b + a}{2b}$

(b) $\frac{3ab + c^2}{cb}$

$$(c) \frac{(b+c)+b(a+b)}{(a+b)(b+c)}$$

$$(d) \frac{(a-b)(a-b)+(a+b)(a+b)}{(a+b)(a-b)}$$

2.

$$(a) \frac{b}{ac}$$

$$(b) \frac{ac}{b^2}$$

$$(c) \frac{y}{z(x+1)}$$

Exercise WS2.4

1.

$$(a) a^2 ; -a^3 ; a^4 ; -a^5$$

$$(b) \frac{b^2}{4} ; \left(\frac{a}{b}\right)^2 ; -\frac{x^2}{y^2} ; \frac{x^3}{y}$$

$$(c) \frac{2y}{3x}$$

2.

$$(a) x^2y^2$$

$$(b) xy^{\frac{1}{2}}$$

$$(c) x^2y$$

$$(d) \frac{1}{x^4y}$$