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Exercise W2.1

1.

(a) $2a-3$

(b) $-2x+4y-z$

(c) $3ay+2a+4y$

2.

(d) $\frac{ax}{by}$; $\frac{2x}{3y}$

(e) $\frac{ax}{by}$; $\frac{2x}{3y}$

(f) $\frac{abx^2}{cy}$; $\frac{-3x^2}{2y}$

Exercise W2.2

1.

(a) $y-7x$

(b) $4-x$

(c) $2y(x-z)$

2.

(a) $5x(y-2)$

(b) $x(5-3y)-4y$; or 5x-y(3x+4)

(c) $y(2x-4z+1)$

(d) $2z[y(2x-1)+4x]$

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Exercise W2.3

1.

(a) $\frac{ad-cb}{bd}$

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

(c) $\frac{a^2c+b^2+c^2}{abc}$

(d) $\frac{2ab^2-abd}{bcd}$

2.

(a) $\frac{ab^2}{d}$

(b) $\frac{a(c+d)}{b^2c}$

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

Exercise W2.4

1.

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

(b) $\frac{3u}{5}$; or $\frac{3}{5}u$

(c) $\frac{-a}{b^2}$; or $-\frac{a}{b^2}$

2.

(a) $a+b$

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(b) $x^{-1}y$; or $\frac{y}{x}$

(c) uv^{-1} ; or $\frac{u}{v}$

(d) $\frac{a^2b}{c}$

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Exercise W2.1

1. Write in their simplest forms:

(a) $a+2-3a-5+4a$

(b) $y+z-2x+3y-2z$

(c) $5ay+2a+4y-2ay$

2. Re-write the following without using the '$\times$' and '$\div$' signs, and find the numerical value of each when $a=2,\ b=3$ and $c=-4$:

(a) $-ax\div -by$

(b) $a\times x\div y\times b$

(c) $-ax\div cy\times(-bx)$

Exercise W2.2

1. Multiply out, and simplify:

(a) $-3(x+y)+4(y-x)$

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

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

2. Factorize the following, where possible:

(a) $5xy-10x$

(b) $5x-3xy-4y$

(c) $2xy-4zy+y$

(d) $4xyz-2yz+8xz$

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Exercise W2.3

1. Express each of the following as a single algebraic fraction:

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

(b) $\frac{ab}{c}+\frac{ac}{b}$

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

(d) $\frac{2ab}{cd}-\frac{ab}{bc}$

2. Express each of the following as a single algebraic fraction, and simplify where possible:

(a) $\frac{ab}{c}\times\frac{bc}{d}$

(b) $\frac{a}{bc}\div\frac{b}{c+d}$

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

Exercise W2.4

1. Simplify where possible:

(a) $2(-a)^2\ ;\ -2(-a)^2\ ;\ -2(-a)^3\ ;\ 2(a)^2$

(b) $3u^2\div 5u$

(c) $\frac{a^2}{b^3}\div\frac{a}{-b}$

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2. Remove the brackets from the following:

(a) $\dfrac{(a+b)^3}{(a+b)^2}$

(b) $(x^{-\frac{1}{2}}y^{\frac{1}{2}})^2$

(c) $\dfrac{u^{\frac{1}{2}}v^{-\frac{1}{2}}}{u^{-\frac{1}{2}}v^{\frac{1}{2}}}$

(d) $\dfrac{(ab)^2}{bc}$

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