

Simplify

(a) $5c - d - 3d - 2c$ [2]

(b) $5m^2 \times 2m^3$ [2]

(c) $(x^8)^3$ [1]

(d) $\frac{w^2}{w^3}$ [1]

(e) $4x^3y \times 5x^2y$ [2]

(f) $36\ y^5 \div 4\ y^2$ [2]

(g) $x^3 \div \frac{3}{x^5}$ [1]

(h) $\frac{4(x-6)^2}{x-6}$ [1]

(i) $\frac{x^3y+2xy^3}{x^2y^2}$ [2]

(j) $\frac{3+x}{9-x^2}$ [2]

(k) $\frac{4+10w}{8-50w^2}$ [4]

(l) $\frac{ab-b^2}{a^2-b^2}$ [3]

(m) $\frac{x^2-3x}{x^2-9}$ [3]

(n) $\frac{2a+2b+3ay+3by}{a^2-b^2}$ [3]

(o) $\frac{42np-7n}{12pt-2t+18mp-3m}$ [4]

(p) $\frac{2x^2-x-1}{2x^2+x}$ [4]

(q) $\frac{x^2+6x-7}{3x+21}$ [4]

(r) $\frac{7x+21}{2x^2+9x+9}$ [4]

(s) $\frac{4x^2-16x}{2x^2+6x-56}$ [4]

(t) $\frac{x^2-x-20}{x^3-10x^2+25x}$ [5]

(u) $\frac{h^2-h-20}{h^2-25}$ [4]

(v) $\frac{x^2-5x+6}{x^2-4}$ [4]

(w) $\frac{2x^2+5x-3}{2x^2-18}$ [3]

(x) $\frac{x^2+12x+36}{x^2+4x-12}$ [5]

(y) $\frac{x^2-3x+2}{x^2+3x-10}$ [4]

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ANSWERS:

a) 3c – 4d	b) $10m^5$	c) x^{24}	d) 1/w	e) $20\ x^5y^2$
f) $9y^3$	g) $x^8 / 3$		h) $4(x – 6)$	i) $(x^2 + 2y^2)/ xy$
j) $1 / (3 – x)$	k) $1/ (2 – 5w)$		l) $b/(a + b)$	m) $x / (x + 3)$
n) $(2 + 3y) / (a – b)$	o) $7n / (2t + 3m)$		p) $(x – 1)/x$	q) $(x – 1)/ 3$
r) $7/ (2x + 3)$	s) $2x / (x + 7)$		t) $(x + 4)/ x\ (x – 5)$	u) $(h + 4)/(h + 5)$
v) $(x – 3)/(x + 2)$	w) $(2x – 1)/2(x – 3)$		x) $(x + 6)/(x – 2)$	y) $(x – 1)/ (x + 5)$

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