

Chapter 1 – Reviewing algebra

Solutions to Exercise 1A

1 a Add indices:

$$x^3 \times x^4 = x^{3+4} = x^7$$

b Add indices:

$$a^5 \times a^{-3} = a^{5+(-3)} = a^2$$

c Add indices:

$$x^2 \times x^{-1} \times x^2 = x^{2+(-1)+2} = x^3$$

d Subtract indices:

$$\frac{y^3}{y^7} = y^{3-7} = y^{-4}$$

e Subtract indices:

$$\frac{x^8}{x^{-4}} = x^{8-(-4)} = x^{12}$$

f Subtract indices:

$$\frac{p^5}{p^2} = p^{5-2} = p^3$$

g Subtract indices:

$$a^{\frac{1}{2}} \div a^{\frac{2}{3}} = a^{\frac{1}{2}-\frac{2}{3}} = a^{-\frac{1}{6}}$$

h Multiply indices:

$$(a^{-2})^4 = a^{-2 \times 4} = a^{-8}$$

i Multiply indices:

$$(y^{-2})^{-7} = y^{-2 \times (-7)} = y^{14}$$

j Multiply indices:

$$(x^5)^3 = x^{5 \times 3} = x^{15}$$

k Multiply indices:

$$(a^{-20})^{\frac{1}{2}} = a^{-20 \times \frac{1}{2}} = a^{-10}$$

l Multiply indices:

$$\left(x^{-\frac{1}{2}}\right)^{-4} = x^{-\frac{1}{2} \times (-4)} = x^2$$

m Multiply indices:

$$(n^{10})^{\frac{1}{5}} = n^{10 \times \frac{1}{5}} = n^2$$

n Multiply the coefficients and add the indices:

$$2x^{\frac{1}{2}} \times 4x^3 = (2 \times 4)x^{\frac{1}{2}+3} = 8x^{\frac{7}{2}}$$

o Multiply the first two indices and add the third:

$$\begin{aligned}(a^2)^{\frac{5}{2}} \times a^{-4} &= a^{2 \times \frac{5}{2}} \times a^{-4} \\ &= a^{5+(-4)} \\ &= a^1 = a\end{aligned}$$

p $\frac{1}{x^{-4}} = x^{1+4} = x^5$

q

$$\begin{aligned}(2n^{-\frac{2}{3}})^5 \div (4^3n^4) &= 2^5n^{-\frac{2}{3} \times 5} \div ((2^2)^3n^4) \\ &= 2^5n^{-2} \div (2^6n^4) \\ &= 2^{5-6}n^{-2-4} \\ &= 2^{-1}n^{-6} = \frac{1}{2n^6}\end{aligned}$$

r Multiply the coefficients and add the indices.

$$\begin{aligned}x^3 \times 2x^{\frac{1}{2}} \times -4x^{-\frac{3}{2}} \\ &= (1 \times 2 \times -4)x^{3+\frac{1}{2}+(-\frac{3}{2})} \\ &= -8x^2\end{aligned}$$

s $(ab^3)^2 \times a^{-2}b^{-4} \times \frac{1}{a^2b^{-3}}$

$$\begin{aligned}&= a^2b^6 \times a^{-2}b^{-4} \times a^{-2}b^3 \\ &= a^{2+(-2)+(-2)}b^{6+(-4)+3} \\ &= a^{-2}b^5\end{aligned}$$

t $(2^2p^{-3} \times 4^3p^5 \div ((6p^{-3}))^0) = 1$

Anything to the power zero is 1.

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SA Dillow



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