U1D5_T Extra Practice

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U1D5_T Extra Prac...

U1D5	Extra Practice
Simplify: a) $\frac{7a^2b^9c}{28a^4bc^6}$	b) $\frac{8y^2 - 10xy}{2y}$ c) $\frac{y^2}{(9y^3 - 4y^2)}$ d) $\frac{49x^3 - 21x^2 + 7x}{14x}$
$=\frac{5^8}{4\alpha^2c^5}$	$= \frac{2y(4y-5x)}{7x(7x^2-3x+1)}$
a,b,c≠0	$= 4y - 5x = \frac{1}{9y - 4} = \frac{14x}{2}$ $= 4y - 5x = \frac{1}{9y - 4} = \frac{7x^2 - 3x + 1}{2}$ $y \neq 0, \frac{4}{9} = x \neq 0$
e) $\frac{3-2x}{4x-6}$	f) $\frac{6n^2 - 7n - 3}{12n^2 + 7n + 1}$ g) $\frac{5a^2}{13b} \times \frac{4b^3}{7a^4}$ h) $\frac{k^2}{8l^3m} \div \frac{3k}{4lm}$
$=\frac{-(2x-3)}{a(2x-3)}$	$=\frac{(2n-3)(3n+1)}{(3n+1)(4n+1)} = \frac{20a^2b^3}{91a^4b} = \frac{k^2(4)km^4}{8k^3m(3k)}$
= -1	$= \frac{2n-3}{4n+1} = \frac{20b^2}{91a^2} = \frac{k}{6l^2}$
×+3/2	$n \neq -\frac{1}{3} - \frac{1}{4}$ $a, b \neq 0$ $k, l, m \neq 0$
i) $\frac{3x-3}{2x+2} \times \frac{5x+3}{6x-6}$	$ \frac{5}{6} \qquad \qquad j) \frac{2y^2 - 5y - 3}{2y^2 - 5y + 2} \div \frac{y^2 - 4y + 3}{2y^2 + 3y - 2} $
i) $\frac{3x-3}{2x+2} \times \frac{5x+3}{6x-6}$ $= \frac{3(x+1)}{2(x+1)} \times \frac{5(x+1)}{2(x+1)} \times 5(x+1$	$= \frac{2y^2 - 5y - 3}{3y^2 - 5y + 2} \times \frac{2y^2 + 3y - 2}{y^2 - 4y + 3}$
$=\frac{5}{4}$ χ	
	$= \frac{(2y+1)(y+2)}{(y-2)(y-1)}, y \neq 2, \pm 3, \frac{1}{2}, \frac{1}{3}$
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