

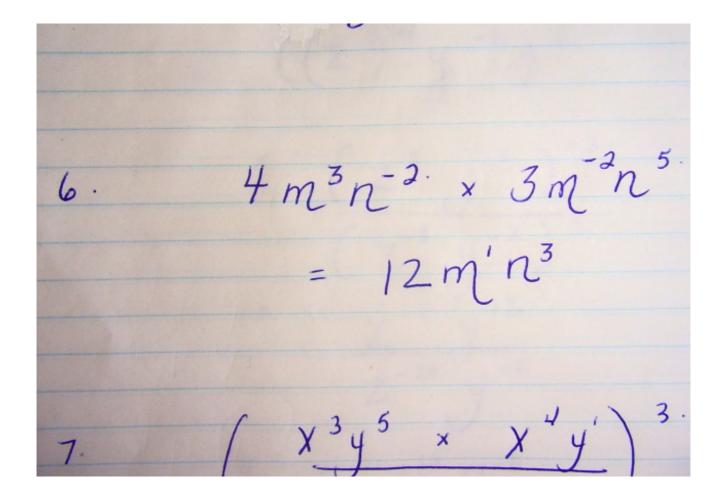
5. 
$$\frac{(a^{4}b^{-2})^{-1}}{(a^{-3}b^{4})^{3}}$$

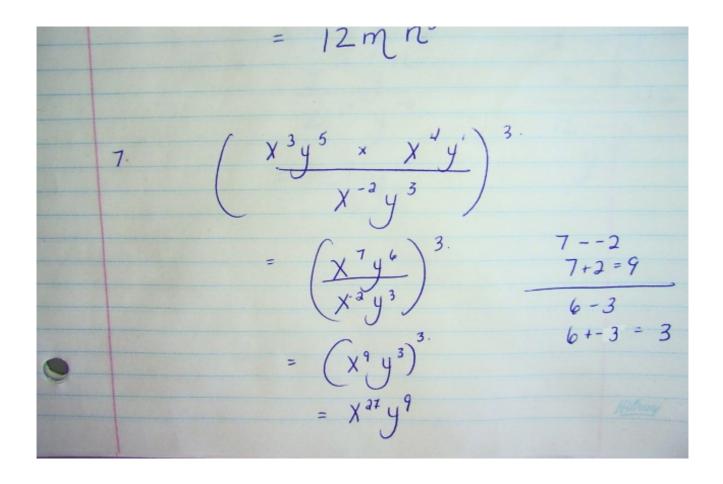
$$= \frac{a^{-4}b^{+2}}{a^{-9}b^{12}}$$

$$= a^{5}(b^{-10})$$

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8. $\left(\frac{a^4b^5}{q^{-3}b^2}\right)^3$ $= \left(a^{7}b^{3}\right)^3$ $= a^{2}b^{9}$	43 = $4 + 3 = 7$ $5 - 2$ $5 + -2 = 3$
9. $(z^{3}(y^{-2})^{3})^{-2}$ $((z^{-3})^{4}y^{-2})^{3}$ $=(z^{3}y^{-6})^{-2}$	
	-6 +24 = 18 

10. 
$$(4b^{2}c^{3})^{2} \times (2b^{-2}c^{-3})^{-2}$$
  
 $+3b^{4}c^{6} \times 2^{-3}b^{4}c^{4}$   
 $16b^{4}c^{6} \times \frac{1b^{4}c^{4}}{4}$   
 $\frac{16b^{8}c^{10}}{4}$   
 $= 4b^{8}c^{10}$   
11.  $\frac{36m^{-3}n^{5}}{9m^{-4}n^{7}}$   $\frac{-2-4}{-2+4=2}$   
 $= 4m^{2}c^{-3}$   
 $= \frac{4m^{3}}{n^{2}}$ 

