

Product \notin Quotient of Functions? RULE: For the same x-values, multiply I divide the y-values notation: $f(x) \times g(x)$ can be written as $f(x)$ or $f(x)$. $f(x) : g(x)$ can be written as $f(x)$ or $(f : g)(x)$
RULE: For the same x-values, multiply/divide the y-values notation: fox/x g(x) can be written as (fxg)(x)
worderion; f(x) x g(x) can be worther as (fxg)(x)
or if the written as the or it - or it
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Examples!
OGIVEN $f = \{(1,5), (2,0), (5,11)\}$ and
$g = \{(2, -4), (3, 1), (5, 0)\} $ find
a) $(f \times g)(x)$ b) $(f : g)(x)$ c) $(g : f)(x)$
a) $(f \times g)(x)$ b) $(f \cdot g)(x)$ c) $(g \cdot f)(x)$ = $\xi(2,0), (5,0)$ = $\xi(2,0)$ = $\xi(5,0)$ = $\xi(5,0)$ =
Discon m(x) = x2+x-6 and n(x) = Jx+3 determine (m=n)(x) fully simplified and determine its domain
$(m+n)(x) = (x^2+x-6) \div \sqrt{x+3}$ Domain
= X2+X-6 m(x): EXER 3 parabola N(x): EXER x2-33 square root findion
N(x): EXERIX > -33 Square root fundion
$= \frac{(\kappa+3)(\kappa-2)}{(\kappa+3)^{\frac{1}{2}}} \qquad \frac{m(\kappa)}{n(\kappa)} : \sqrt{\kappa+3} \neq 0$
(x+3) = n(x) x+3 70
$= (\chi + 3)(\chi - 2)$ $= (\chi + 3)(\chi - 2)$
EXECUTIV>-33

