Product and Quotient Rule Dominoes

START	$y = x^2 \ln x$
$\dfrac{\mathrm{d}y}{\mathrm{d}x} = 2x^2\mathrm{e}^{2x} + 2x\mathrm{e}^{2x}$	$y = x \ln x^2$
$\dfrac{\mathrm{d}y}{\mathrm{d}x} = x^2 \cos x + 2x \sin x$	$y = x \cos x$
$\dfrac{\mathrm{d}y}{\mathrm{d}x} = 1 + \ln x$	$y = x\mathrm{e}^{2x}$
$\dfrac{\mathrm{d}y}{\mathrm{d}x} = x^2\mathrm{e}^{x} + 2x\mathrm{e}^{x}$	$y = x^2 \ln 2x$
$\dfrac{\mathrm{d}y}{\mathrm{d}x} = 1 + \ln 2x$	$y = 2x\mathrm{e}^{x}$
$\dfrac{\mathrm{d}y}{\mathrm{d}x} = 2x^2\mathrm{e}^{x^2} + \mathrm{e}^{x^2}$	$y = x^2\mathrm{e}^{x}$

$\frac{\mathrm{d}y}{\mathrm{d}x} = x + 2x\ln 2x$	$y = x\ln x$
$\frac{\mathrm{d}y}{\mathrm{d}x} = -2x\sin 2x + \cos 2x$	$y = x\sin 2x$
$\frac{\mathrm{d}y}{\mathrm{d}x} = 2x^2\cos 2x + 2x\sin 2x$	$y = x\ln 2x$
$\frac{\mathrm{d}y}{\mathrm{d}x} = -x\sin x + \cos x$	$y = x^2\cos x$
$\frac{\mathrm{d}y}{\mathrm{d}x} = -2x^2\sin 2x + 2x\cos 2x$	$y = x\cos 2x$
$\frac{\mathrm{d}y}{\mathrm{d}x} = 2 + \ln x^2$	$y = x^2\ln x^2$
$\frac{\mathrm{d}y}{\mathrm{d}x} = x\cos x + \sin x$	$y = x^2\sin x$

$\frac{\mathrm{d}y}{\mathrm{d}x} = 2x + 2x\ln x^2$	**END**
$\frac{\mathrm{d}y}{\mathrm{d}x} = 2x\mathrm{e}^{2x} + \mathrm{e}^{2x}$	$y = x^2\mathrm{e}^{2x}$
$\frac{\mathrm{d}y}{\mathrm{d}x} = -x^2\sin x + 2x\cos x$	$y = x^2\cos 2x$
$\frac{\mathrm{d}y}{\mathrm{d}x} = x + 2x\ln x$	$y = x\sin x$
$\frac{\mathrm{d}y}{\mathrm{d}x} = 2x\cos 2x + \sin 2x$	$y = x^2\sin 2x$
$\frac{\mathrm{d}y}{\mathrm{d}x} = 2x\mathrm{e}^{x} + 2\mathrm{e}^{x}$	$y = x\mathrm{e}^{x^2}$