10(a)	Divide by $\left(x^2-3\right)$ to obtain $x+k\ \ (k\neq 0)$
	Obtain quotient $x+5$
	Obtain remainder x
10(b)	Separate variables correctly and obtain $\int 6y\,\mathrm{d}y=3y^2$
	Obtain $\frac{1}{2}x^2+5x$
	Obtain $\frac{1}{2}\ln\left(x^2-3\right)$
	Use $y=2,\ x=2$ to evaluate the constant of integration in an integral containing $k\ln\left(x^2-3\right)$
	Obtain $y^2=\frac{1}{6}x^2+\frac{5}{3}x+\frac{1}{6}\ln\left(x^2-3\right)$