

Integration dominoes – simple polynomials

Cut along the dashed lines to create 24 domino cards. Match the dominoes by integrating the polynomial on the right hand side with respect to x . The dominoes form one continuous loop.

$\frac{1}{9}x^3 - \frac{1}{5}x^2 + \frac{3}{7}x + c$	1.65	$-x^2 + 4x + c$	0
$-x^2 + (a-b)x + c$	$-\frac{3}{4}$	$\frac{1}{25}x^5 - \frac{1}{3}x^3 + x + c$	-1
$ax^2 + bx + c$	$l - m + n$	c	$2x + 5$
$-\frac{3}{2}x^2 + 3x + c$	$-7x$	$-\frac{7}{2}x^2 + c$	$6x - 1$
$3x^2 - x + c$	$4 - 2x$	$2mnx^2 + (pq + 5)x + c$	$-2x + a - b$
$\frac{3}{4}x^4 + \frac{4}{3}x^3 - \frac{1}{2}x^2 + c$	$3 - 3x$	$\frac{7}{4}x^4 - \frac{5}{3}x^3 - 3x + c$	$4mnx + pq + 5$
$x^2 + 5x + c$	$\frac{1}{2p}x^2 - \frac{5}{q}x + 1$	$\frac{1}{6p}x^3 - \frac{5}{2q}x^2 + x + c$	$2ax + b$
$0.4x^5 - 0.5x^3 - 0.6x^2 + c$	$\frac{1}{3}x^2 - \frac{2}{5}x + \frac{3}{7}$	$0.5x^6 - 1.5x^4 - 2.5x^2 + c$	$0.5 - 1.5x$
$-\frac{3}{4}x + c$	$3x^3 + 4x^2 - x$	$2.1x^4 - 3.21x + c$	$\frac{2m}{3n}x^2 - \frac{p}{4q}x$
$0.2x^6 - 0.3x^5 - 0.3x^7 + c$	$8.4x^3 - 3.21$	$-x + c$	$7x^3 - 5x^2 - 3$
$-0.75x^2 + 0.5x + c$	$\frac{1}{5}x^4 - x^2 + 1$	$\frac{2m}{9n}x^3 - \frac{p}{8q}x^2 + c$	$2x^4 - 1.5x^2 - 1.2x$
$1.65x + c$	$3x^5 - 6x^3 - 5x$	$(l - m + n)x + c$	$1.2x^5 - 1.5x^4 - 2.1x^6$

Answers (reading down the page)

$\frac{1}{9}x^3 - \frac{1}{5}x^2 + \frac{3}{7}x + c$	1.65	$-\frac{7}{2}x^2 + c$	$6x - 1$
$1.65x + c$	$3x^5 - 6x^3 - 5x$	$3x^2 - x + c$	$4 - 2x$
$0.5x^6 - 1.5x^4 - 2.5x^2 + c$	$0.5 - 1.5x$	$-x^2 + 4x + c$	0
$-0.75x^2 + 0.5x + c$	$\frac{1}{5}x^4 - x^2 + 1$	c	$2x + 5$
$\frac{1}{25}x^5 - \frac{1}{3}x^3 + x + c$	-1	$x^2 + 5x + c$	$\frac{1}{2p}x^2 - \frac{5}{q}x + 1$
$-x + c$	$7x^3 - 5x^2 - 3$	$\frac{1}{6p}x^3 - \frac{5}{2q}x^2 + x + c$	$2ax + b$
$\frac{7}{4}x^4 - \frac{5}{3}x^3 - 3x + c$	$4mnx + pq + 5$	$ax^2 + bx + c$	$l - m + n$
$2mnx^2 + (pq + 5)x + c$	$-2x + a - b$	$(l - m + n)x + c$	$1.2x^5 - 1.5x^4 - 2.1x^6$
$-x^2 + (a - b)x + c$	$-\frac{3}{4}$	$0.2x^6 - 0.3x^5 - 0.3x^7 + c$	$8.4x^3 - 3.21$
$-\frac{3}{4}x + c$	$3x^3 + 4x^2 - x$	$2.1x^4 - 3.21x + c$	$\frac{2m}{3n}x^2 - \frac{p}{4q}x$
$\frac{3}{4}x^4 + \frac{4}{3}x^3 - \frac{1}{2}x^2 + c$	$3 - 3x$	$\frac{2m}{9n}x^3 - \frac{p}{8q}x^2 + c$	$2x^4 - 1.5x^2 - 1.2x$
$-\frac{3}{2}x^2 + 3x + c$	$-7x$	$0.4x^5 - 0.5x^3 - 0.6x^2 + c$	$\frac{1}{3}x^2 - \frac{2}{5}x + \frac{3}{7}$