More to Explore

Polydoku

Complete the polydoku problems. Use the completed first problem as a guide.

1) $(2x^3 - x^2 + x + 1) \div (x + 1)$

$2x^2 \quad -3x \quad 4 \qquad \Rightarrow 2x^2 - 3x + 4 - \frac{3}{x+1}$

x	$2x^3$	$-3x^2$	$4x$	-3
$+1$	$2x^2$	$-3x$	4	
	$-x^2$	$+x$	$+1$	

2) $(6x^3 + 19x^2 + 7x - 12) \div (2x + 3)$

$2x$	$6x^3$			
$+3$				
	$+19x^2$	$+7x$	-12	

3) $(8x^3 - 5x^2 + \frac{1}{4}x + 1) \div (4x - 3)$

$4x$	$8x^3$			
-3				

4) $(3x^3 - 8x + 14) \div (x - 6)$

x	$3x^3$			
-6				

5) $(8x^4 - 6x^3 + 10x^2 - x + 5) \div (4x + 1)$

$4x$	$8x^4$				
$+1$					

6) $(x^4 + 13x^2 - 14) \div (x - 1)$

x	x^4				
-1					