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Dividing Polynomials

Version 1

All divisions should go evenly.

(1) Simplify $\dfrac{9x-63}{x-7}$

$x-7\overline{)\,9x-63}$

(2) Simplify $\dfrac{-9x^2+27x}{x-3}$

$x-3\overline{)\,-9x^2+27x}$

(3) Simplify $\dfrac{-5x^2+32x+21}{x-7}$

$x-7\overline{)\,-5x^2+32x+21}$

(4) Simplify $\dfrac{x^3-10x^2+18x-9}{x-1}$

$x-1\overline{)\,x^3-10x^2+18x-9}$

(5) Simplify $\dfrac{7x^3-20x^2-25x+8}{x^2-4x+1}$

$x^2-4x+1\overline{)\,7x^3-20x^2-25x+8}$

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Dividing Polynomials

Version 2

All divisions should go evenly.

(1) Simplify $\dfrac{9x-72}{x-8}$ $x-8\overline{)\,9x-72}$

(2) Simplify $\dfrac{-9x^2+72x}{x-8}$ $x-8\overline{)\,-9x^2+72x}$

(3) Simplify $\dfrac{8x^2+7x-18}{x+2}$ $x+2\overline{)\,8x^2+7x-18}$

(4) Simplify $\dfrac{-2x^3+15x^2-32x+15}{x-3}$ $x-3\overline{)\,-2x^3+15x^2-32x+15}$

(5) Simplify $\dfrac{x^3-14x^2+41x+20}{x^2-9x-4}$ $x^2-9x-4\overline{)\,x^3-14x^2+41x+20}$

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Dividing Polynomials

Version 3

All divisions should go evenly.

(1) Simplify $\dfrac{9x-36}{x-4}$

$x-4\overline{)\,9x-36}$

(2) Simplify $\dfrac{8x^2-48x}{x-6}$

$x-6\overline{)\,8x^2-48x}$

(3) Simplify $\dfrac{3x^2+20x-7}{x+7}$

$x+7\overline{)\,3x^2+20x-7}$

(4) Simplify $\dfrac{5x^3-16x^2+20x-16}{x-2}$

$x-2\overline{)\,5x^3-16x^2+20x-16}$

(5) Simplify $\dfrac{4x^3+18x^2+14x-12}{x^2+5x+6}$

$x^2+5x+6\overline{)\,4x^3+18x^2+14x-12}$

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Dividing Polynomials

Version 4

All divisions should go evenly.

(1) Simplify $\dfrac{2x+16}{x+8}$ $x+8\overline{)\,2x+16}$

(2) Simplify $\dfrac{-6x^2+12x}{x-2}$ $x-2\overline{)\,-6x^2+12x}$

(3) Simplify $\dfrac{-6x^2-55x-56}{x+8}$ $x+8\overline{)\,-6x^2-55x-56}$

(4) Simplify $\dfrac{-4x^3-21x^2-30x-9}{x+3}$ $x+3\overline{)\,-4x^3-21x^2-30x-9}$

(5) Simplify $\dfrac{3x^3+20x^2+38x+16}{x^2+4x+2}$ $x^2+4x+2\overline{)\,3x^3+20x^2+38x+16}$

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Dividing Polynomials

Version 5

All divisions should go evenly.

(1) Simplify $\dfrac{-9x+27}{x-3}$

$x-3\overline{)\,-9x+27}$

(2) Simplify $\dfrac{4x^2-12x}{x-3}$

$x-3\overline{)\,4x^2-12x}$

(3) Simplify $\dfrac{4x^2-11x+6}{x-2}$

$x-2\overline{)\,4x^2-11x+6}$

(4) Simplify $\dfrac{3x^3-23x^2+34x-24}{x-6}$

$x-6\overline{)\,3x^3-23x^2+34x-24}$

(5) Simplify $\dfrac{-5x^3+12x^2+37x+8}{x^2-4x-1}$

$x^2-4x-1\overline{)\,-5x^3+12x^2+37x+8}$

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Dividing Polynomials

Version 6

All divisions should go evenly.

(1) Simplify $\dfrac{-9x+63}{x-7}$

$x-7\overline{)\,-9x+63}$

(2) Simplify $\dfrac{5x^2-5x}{x-1}$

$x-1\overline{)\,5x^2-5x}$

(3) Simplify $\dfrac{-8x^2+13x+6}{x-2}$

$x-2\overline{)\,-8x^2+13x+6}$

(4) Simplify $\dfrac{-3x^3-16x^2+42x+49}{x+7}$

$x+7\overline{)\,-3x^3-16x^2+42x+49}$

(5) Simplify $\dfrac{4x^3-32x^2+40x+16}{x^2-6x-2}$

$x^2-6x-2\overline{)\,4x^3-32x^2+40x+16}$

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Dividing Polynomials

Version 7

All divisions should go evenly.

(1) Simplify $\dfrac{-5x+35}{x-7}$

$x-7\overline{)\,-5x+35}$

(2) Simplify $\dfrac{8x^2+24x}{x+3}$

$x+3\overline{)\,8x^2+24x}$

(3) Simplify $\dfrac{8x^2-64x+56}{x-7}$

$x-7\overline{)\,8x^2-64x+56}$

(4) Simplify $\dfrac{6x^3-26x^2+19x+15}{x-3}$

$x-3\overline{)\,6x^3-26x^2+19x+15}$

(5) Simplify $\dfrac{9x^3-63x^2+81x-27}{x^2-6x+3}$

$x^2-6x+3\overline{)\,9x^3-63x^2+81x-27}$

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Dividing Polynomials

Version 8

All divisions should go evenly.

(1) Simplify $\dfrac{3x+6}{x+2}$ $\qquad$ $x+2\overline{)\,3x+6}$

(2) Simplify $\dfrac{4x^2-20x}{x-5}$ $\qquad$ $x-5\overline{)\,4x^2-20x}$

(3) Simplify $\dfrac{-x^2-10x-9}{x+1}$ $\qquad$ $x+1\overline{)\,-x^2-10x-9}$

(4) Simplify $\dfrac{4x^3+x^2+x+4}{x+1}$ $\qquad$ $x+1\overline{)\,4x^3+x^2+x+4}$

(5) Simplify $\dfrac{-2x^3-14x^2-20x+12}{x^2+4x-2}$ $\qquad$ $x^2+4x-2\overline{)\,-2x^3-14x^2-20x+12}$

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Dividing Polynomials

Version 9

All divisions should go evenly.

(1) Simplify $\dfrac{-5x-35}{x+7}$

$x+7 \overline{)\ -5x-35}$

(2) Simplify $\dfrac{-5x^2+40x}{x-8}$

$x-8 \overline{)\ -5x^2+40x}$

(3) Simplify $\dfrac{-7x^2+6x+1}{x-1}$

$x-1 \overline{)\ -7x^2+6x+1}$

(4) Simplify $\dfrac{-3x^3+x^2+15x-10}{x-2}$

$x-2 \overline{)\ -3x^3+x^2+15x-10}$

(5) Simplify $\dfrac{4x^3-19x^2-46x-20}{x^2-6x-4}$

$x^2-6x-4 \overline{)\ 4x^3-19x^2-46x-20}$

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Dividing Polynomials

Version 10

All divisions should go evenly.

(1) Simplify $\dfrac{-4x-4}{x+1}$ $x+1\overline{)\,-4x-4}$

(2) Simplify $\dfrac{4x^2+28x}{x+7}$ $x+7\overline{)\,4x^2+28x}$

(3) Simplify $\dfrac{9x^2+71x+56}{x+7}$ $x+7\overline{)\,9x^2+71x+56}$

(4) Simplify $\dfrac{3x^3+13x^2-55x+7}{x+7}$ $x+7\overline{)\,3x^3+13x^2-55x+7}$

(5) Simplify $\dfrac{-8x^3-27x^2+60x-25}{x^2+4x-5}$ $x^2+4x-5\overline{)\,-8x^3-27x^2+60x-25}$

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Dividing Polynomials

Version 11

All divisions should go evenly.

(1) Simplify $\dfrac{-9x-18}{x+2}$

$x+2\overline{)\,-9x-18}$

(2) Simplify $\dfrac{2x^2+14x}{x+7}$

$x+7\overline{)\,2x^2+14x}$

(3) Simplify $\dfrac{-8x^2-63x+8}{x+8}$

$x+8\overline{)\,-8x^2-63x+8}$

(4) Simplify $\dfrac{9x^3-35x^2+19x+15}{x-3}$

$x-3\overline{)\,9x^3-35x^2+19x+15}$

(5) Simplify $\dfrac{7x^3-6x^2+40x+64}{x^2-2x+8}$

$x^2-2x+8\overline{)\,7x^3-6x^2+40x+64}$

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Dividing Polynomials

Version 12

All divisions should go evenly.

(1) Simplify $\dfrac{-2x+4}{x-2}$

$x-2\overline{)\,-2x+4}$

(2) Simplify $\dfrac{-3x^2-3x}{x+1}$

$x+1\overline{)\,-3x^2-3x}$

(3) Simplify $\dfrac{8x^2-64x+56}{x-7}$

$x-7\overline{)\,8x^2-64x+56}$

(4) Simplify $\dfrac{-x^3+8x^2-x-42}{x-7}$

$x-7\overline{)\,-x^3+8x^2-x-42}$

(5) Simplify $\dfrac{3x^3+7x^2-61x+56}{x^2+5x-7}$

$x^2+5x-7\overline{)\,3x^3+7x^2-61x+56}$

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Dividing Polynomials

Version 13

All divisions should go evenly.

(1) Simplify $\dfrac{-9x+18}{x-2}$

$x-2\overline{)\,-9x+18}$

(2) Simplify $\dfrac{-2x^2-14x}{x+7}$

$x+7\overline{)\,-2x^2-14x}$

(3) Simplify $\dfrac{-6x^2+48x-42}{x-7}$

$x-7\overline{)\,-6x^2+48x-42}$

(4) Simplify $\dfrac{-x^3-3x^2+33x-20}{x-4}$

$x-4\overline{)\,-x^3-3x^2+33x-20}$

(5) Simplify $\dfrac{-7x^3-22x^2+31x-6}{x^2+4x-1}$

$x^2+4x-1\overline{)\,-7x^3-22x^2+31x-6}$

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Dividing Polynomials

Version 14

All divisions should go evenly.

(1) Simplify $\dfrac{4x-20}{x-5}$ $x-5\overline{)\,4x-20}$

(2) Simplify $\dfrac{7x^2+28x}{x+4}$ $x+4\overline{)\,7x^2+28x}$

(3) Simplify $\dfrac{-x^2-7x+18}{x-2}$ $x-2\overline{)\,-x^2-7x+18}$

(4) Simplify $\dfrac{-8x^3-33x^2-32x-15}{x+3}$ $x+3\overline{)\,-8x^3-33x^2-32x-15}$

(5) Simplify $\dfrac{8x^3-31x^2-69x-27}{x^2-5x-3}$ $x^2-5x-3\overline{)\,8x^3-31x^2-69x-27}$

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Dividing Polynomials

Version 15

All divisions should go evenly.

(1) Simplify $\dfrac{2x-6}{x-3}$

$x-3\overline{)\,2x-6}$

(2) Simplify $\dfrac{-9x^2+81x}{x-9}$

$x-9\overline{)\,-9x^2+81x}$

(3) Simplify $\dfrac{5x^2+18x+9}{x+3}$

$x+3\overline{)\,5x^2+18x+9}$

(4) Simplify $\dfrac{4x^3-22x^2+13x-15}{x-5}$

$x-5\overline{)\,4x^3-22x^2+13x-15}$

(5) Simplify $\dfrac{-2x^3-20x^2-64x-64}{x^2+6x+8}$

$x^2+6x+8\overline{)\,-2x^3-20x^2-64x-64}$

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Dividing Polynomials

Version 16

All divisions should go evenly.

(1) Simplify $\dfrac{3x-18}{x-6}$ $x-6\overline{)\,3x-18}$

(2) Simplify $\dfrac{2x^2-4x}{x-2}$ $x-2\overline{)\,2x^2-4x}$

(3) Simplify $\dfrac{-6x^2-24x-18}{x+3}$ $x+3\overline{)\,-6x^2-24x-18}$

(4) Simplify $\dfrac{5x^3-38x^2+29x-56}{x-7}$ $x-7\overline{)\,5x^3-38x^2+29x-56}$

(5) Simplify $\dfrac{2x^3-14x^2+38x-36}{x^2-5x+9}$ $x^2-5x+9\overline{)\,2x^3-14x^2+38x-36}$

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Dividing Polynomials

Version 17

All divisions should go evenly.

(1) Simplify $\dfrac{-7x-28}{x+4}$

$x+4 \overline{)\ -7x-28}$

(2) Simplify $\dfrac{-2x^2-16x}{x+8}$

$x+8 \overline{)\ -2x^2-16x}$

(3) Simplify $\dfrac{4x^2+27x+35}{x+5}$

$x+5 \overline{)\ 4x^2+27x+35}$

(4) Simplify $\dfrac{6x^3-55x^2+54x+16}{x-8}$

$x-8 \overline{)\ 6x^3-55x^2+54x+16}$

(5) Simplify $\dfrac{3x^3-12x-45}{x^2+3x+5}$

$x^2+3x+5 \overline{)\ 3x^3-12x-45}$

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Dividing Polynomials

Version 18

All divisions should go evenly.

(1) Simplify $\dfrac{3x-18}{x-6}$

$x-6\overline{)\,3x-18}$

(2) Simplify $\dfrac{-8x^2-16x}{x+2}$

$x+2\overline{)\,-8x^2-16x}$

(3) Simplify $\dfrac{-2x^2+6x+8}{x+1}$

$x+1\overline{)\,-2x^2+6x+8}$

(4) Simplify $\dfrac{2x^3-10x^2+18x-18}{x-3}$

$x-3\overline{)\,2x^3-10x^2+18x-18}$

(5) Simplify $\dfrac{6x^3-16x^2+48x+18}{x^2-3x+9}$

$x^2-3x+9\overline{)\,6x^3-16x^2+48x+18}$

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Dividing Polynomials

Version 19

All divisions should go evenly.

(1) Simplify $\dfrac{-6x+42}{x-7}$

$x-7\overline{)\,-6x+42}$

(2) Simplify $\dfrac{-8x^2+32x}{x-4}$

$x-4\overline{)\,-8x^2+32x}$

(3) Simplify $\dfrac{-6x^2+27x+15}{x-5}$

$x-5\overline{)\,-6x^2+27x+15}$

(4) Simplify $\dfrac{2x^3+x^2-35x-28}{x+4}$

$x+4\overline{)\,2x^3+x^2-35x-28}$

(5) Simplify $\dfrac{7x^3-13x^2-23x-3}{x^2-2x-3}$

$x^2-2x-3\overline{)\,7x^3-13x^2-23x-3}$

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Dividing Polynomials

Version 20

All divisions should go evenly.

(1) Simplify $\dfrac{9x-81}{x-9}$

$x-9\overline{)\,9x-81}$

(2) Simplify $\dfrac{9x^2+63x}{x+7}$

$x+7\overline{)\,9x^2+63x}$

(3) Simplify $\dfrac{-7x^2-8x-1}{x+1}$

$x+1\overline{)\,-7x^2-8x-1}$

(4) Simplify $\dfrac{7x^3-48x^2-69x+40}{x-8}$

$x-8\overline{)\,7x^3-48x^2-69x+40}$

(5) Simplify $\dfrac{-3x^3-16x^2+26x+15}{x^2+7x+3}$

$x^2+7x+3\overline{)\,-3x^3-16x^2+26x+15}$

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Dividing Polynomials

Version 21

All divisions should go evenly.

(1) Simplify $\dfrac{3x-18}{x-6}$

$x-6\overline{)\,3x-18}$

(2) Simplify $\dfrac{3x^2+9x}{x+3}$

$x+3\overline{)\,3x^2+9x}$

(3) Simplify $\dfrac{-9x^2+38x+35}{x-5}$

$x-5\overline{)\,-9x^2+38x+35}$

(4) Simplify $\dfrac{2x^3-19x^2+4x+45}{x-9}$

$x-9\overline{)\,2x^3-19x^2+4x+45}$

(5) Simplify $\dfrac{-4x^3+40x^2-44x-40}{x^2-8x-5}$

$x^2-8x-5\overline{)\,-4x^3+40x^2-44x-40}$

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Dividing Polynomials

Version 22

All divisions should go evenly.

(1) Simplify $\dfrac{7x-42}{x-6}$

$x-6\overline{)\,7x-42}$

(2) Simplify $\dfrac{6x^2+24x}{x+4}$

$x+4\overline{)\,6x^2+24x}$

(3) Simplify $\dfrac{x^2-4x+3}{x-3}$

$x-3\overline{)\,x^2-4x+3}$

(4) Simplify $\dfrac{5x^3-15x^2-14x-24}{x-4}$

$x-4\overline{)\,5x^3-15x^2-14x-24}$

(5) Simplify $\dfrac{-6x^3-13x^2+41x+56}{x^2+x-8}$

$x^2+x-8\overline{)\,-6x^3-13x^2+41x+56}$

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Dividing Polynomials

Version 23

All divisions should go evenly.

(1) Simplify $\dfrac{4x-36}{x-9}$

$x-9\overline{)\,4x-36}$

(2) Simplify $\dfrac{3x^2+18x}{x+6}$

$x+6\overline{)\,3x^2+18x}$

(3) Simplify $\dfrac{5x^2-31x-72}{x-8}$

$x-8\overline{)\,5x^2-31x-72}$

(4) Simplify $\dfrac{-4x^3-11x^2+17x-12}{x+4}$

$x+4\overline{)\,-4x^3-11x^2+17x-12}$

(5) Simplify $\dfrac{-7x^3+14x^2-7x-28}{x^2-3x+4}$

$x^2-3x+4\overline{)\,-7x^3+14x^2-7x-28}$

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Dividing Polynomials

Version 24

All divisions should go evenly.

(1) Simplify $\dfrac{8x-16}{x-2}$

$x-2\overline{)\,8x-16}$

(2) Simplify $\dfrac{9x^2+63x}{x+7}$

$x+7\overline{)\,9x^2+63x}$

(3) Simplify $\dfrac{-5x^2+18x-9}{x-3}$

$x-3\overline{)\,-5x^2+18x-9}$

(4) Simplify $\dfrac{5x^3+31x^2+4x-12}{x+6}$

$x+6\overline{)\,5x^3+31x^2+4x-12}$

(5) Simplify $\dfrac{-3x^3+28x^2+3x-4}{x^2-9x-4}$

$x^2-9x-4\overline{)\,-3x^3+28x^2+3x-4}$

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Dividing Polynomials

Version 25

All divisions should go evenly.

(1) Simplify $\dfrac{-8x-16}{x+2}$

$x+2\overline{)\,-8x-16}$

(2) Simplify $\dfrac{-6x^2-18x}{x+3}$

$x+3\overline{)\,-6x^2-18x}$

(3) Simplify $\dfrac{5x^2-34x-48}{x-8}$

$x-8\overline{)\,5x^2-34x-48}$

(4) Simplify $\dfrac{-x^3+x^2+49x+56}{x-8}$

$x-8\overline{)\,-x^3+x^2+49x+56}$

(5) Simplify $\dfrac{-2x^3-2x^2+26x-6}{x^2+4x-1}$

$x^2+4x-1\overline{)\,-2x^3-2x^2+26x-6}$

Version 1

(1) 9
(2) $-9x$
(3) $-5x - 3$
(4) $x^2 - 9x + 9$
(5) $7x + 8$

Version 2

(1) 9
(2) $-9x$
(3) $8x - 9$
(4) $-2x^2 + 9x - 5$
(5) $x - 5$

Version 3

(1) 9
(2) $8x$
(3) $3x - 1$
(4) $5x^2 - 6x + 8$
(5) $4x - 2$

Version 4

(1) 2
(2) $-6x$
(3) $-6x - 7$
(4) $-4x^2 - 9x - 3$
(5) $3x + 8$

Version 5

(1) -9
(2) $4x$
(3) $4x - 3$
(4) $3x^2 - 5x + 4$
(5) $-5x - 8$

Version 6

(1) -9
(2) $5x$
(3) $-8x - 3$
(4) $-3x^2 + 5x + 7$
(5) $4x - 8$

Version 7

(1) -5
(2) $8x$
(3) $8x - 8$
(4) $6x^2 - 8x - 5$
(5) $9x - 9$

Version 8

(1) 3
(2) $4x$
(3) $-x - 9$
(4) $4x^2 - 3x + 4$
(5) $-2x - 6$

Version 9

(1) -5
(2) $-5x$
(3) $-7x - 1$
(4) $-3x^2 - 5x + 5$
(5) $4x + 5$

Version 10

(1) -4
(2) $4x$
(3) $9x + 8$
(4) $3x^2 - 8x + 1$
(5) $-8x + 5$

Version 11

(1) -9
(2) $2x$
(3) $-8x + 1$
(4) $9x^2 - 8x - 5$
(5) $7x + 8$

Version 12

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

Version 13

(1) -9
(2) $-2x$
(3) $-6x + 6$
(4) $-x^2 - 7x + 5$
(5) $-7x + 6$

Version 14

(1) 4
(2) $7x$
(3) $-x - 9$
(4) $-8x^2 - 9x - 5$
(5) $8x + 9$

Version 15

(1) 2
(2) $-9x$
(3) $5x + 3$
(4) $4x^2 - 2x + 3$
(5) $-2x - 8$

Version 16

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

Version 17

(1) -7
(2) $-2x$
(3) $4x + 7$
(4) $6x^2 - 7x - 2$
(5) $3x - 9$

Version 18

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

Version 19

(1) -6
(2) $-8x$
(3) $-6x - 3$
(4) $2x^2 - 7x - 7$
(5) $7x + 1$

Version 20

(1) 9
(2) $9x$
(3) $-7x - 1$
(4) $7x^2 + 8x - 5$
(5) $-3x + 5$

Version 21

(1) 3
(2) $3x$
(3) $-9x - 7$
(4) $2x^2 - x - 5$
(5) $-4x + 8$

Version 22

(1) 7
(2) $6x$
(3) $x - 1$
(4) $5x^2 + 5x + 6$
(5) $-6x - 7$

Version 23

(1) 4
(2) $3x$
(3) $5x + 9$
(4) $-4x^2 + 5x - 3$
(5) $-7x - 7$

Version 24

(1) 8
(2) $9x$
(3) $-5x + 3$
(4) $5x^2 + x - 2$
(5) $-3x + 1$

Version 25

(1) -8
(2) $-6x$
(3) $5x + 6$
(4) $-x^2 - 7x - 7$
(5) $-2x + 6$