P. 309 Adding Polynomials

6. $2a + 5a - 6b + 8b - 2c + 3c$

$= a + 2b + c$

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

$= 4x^2 - 2x - 2$

11. $(2y^3 - 3y^2 - 1) + (-5y^3 - 4y^3 + 3)$

$= -2y^2 - 8y^2 + 2$

28.

$$P = (4x+7) + (5x+2) + (3x+2)$$

$$P = 12x + 12 \quad \text{if } x = 4$$

$$P = 12(4) + 12 \Rightarrow P = 48 + 12 \quad P = 60\,cm$$

p. 311-12 Subtracting Polynomials Oct 9

5. $(3x-5)-1(x+2)$

$= 3x-5-x-2$

$= 2x-7$

7. $(x+4)-1(-x-3)$

$= x+4+x+3$

$= 2x+7$

15. $(2y^2+3y-5)-1(2y^2+4y+6)$

$= 2y^2+3y-5-2y^2-4y-6$

$= -y-11$

18. Subtract

$3x^2+7x-3$ from $2x^2-2x+3$

$=(2x^2-2x+3)-(3x^2+7x-3)$

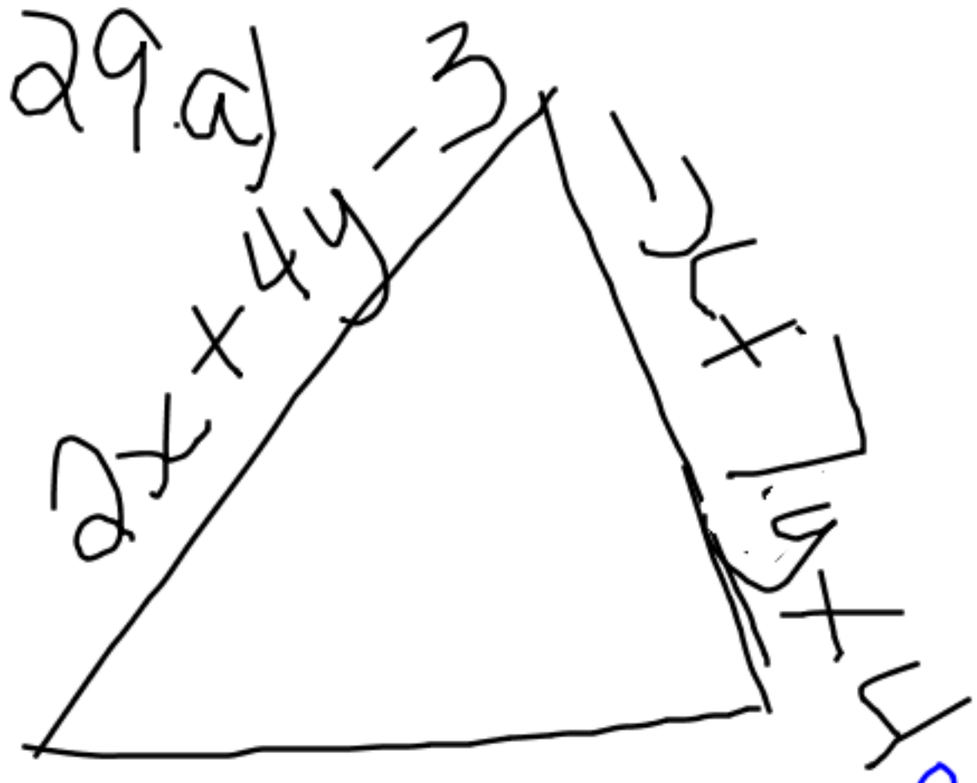
$=2x^2-2x+3-3x^2-7x+3$

$=-x^2-9x+6$

21 & 24 on board

5 min

29.a)



$P = 5x + 3y - 2$

Missing Side = Perimeter − (Side1 + Side2)

M.S = $5x + 3y - 2 - (2x + 4y - 3 - x + 7y + 4)$

M.S = $5x + 3y - 2 - (x + 11y + 1)$

M.S = $5x + 3y - 2 - x - 11y - 1$

M.S = $4x - 8y - 3$ is the missing side.