

$$1a) (2y-1) \cdot (y+2z) = 2y^2 + 4yz - y - 2z - 2y^2 + 2z \\ = 4yz - y$$

3P

$$1b) \left(\frac{1}{2}x - 2\right)^2 - (2x-4)(2x+4) \cdot \frac{1}{2} = \frac{1}{4}x^2 - 2x + 4 - \frac{1}{2}(4x^2 - 16) \\ = \frac{1}{4}x^2 - 2x + 4 - 2x^2 + 8 = -\frac{7}{4}x^2 - 2x + 12$$

4P

$$2a) \left(\frac{1}{2}x + 3\right)^2 = \frac{1}{4}x^2 + 3x + 9$$

$$2b) \left(2y^2 + \frac{1}{2}z\right)^2 = 4y^4 + 2y^2z + \frac{1}{4}z^2$$

5P

$$2c) (2t - 5)^2 = 4t^2 - 45t + 5^2$$

$$3a) \frac{8x-4}{2} - \frac{3x+9}{6} = 4x - 2 - \frac{1}{2}x - \frac{3}{2} = \frac{7}{2}x - \frac{7}{2}$$

$$3b) \frac{2x^2+4x+2}{1+x} = \frac{2(x+1)^2}{1+x} = 2(x+1) = 2x+2$$

$$3c) -\frac{3x^3-9x^2}{x^2-3x} = -\frac{3x^2(x-3)}{x(x-3)} = -3x$$

6P

$$4a) T(-1) = 0 - \frac{1}{2}(-1)^2 - (-1) = \frac{1}{2}$$

3P

$$4b) T\left(\frac{1}{2}\right) = \left(\frac{3}{2}\right)^3 - \frac{1}{2} \cdot \frac{1}{4} - \frac{1}{2} = \frac{11}{4}$$

$$5) (2x-1)\left(3+\frac{1}{2}x\right) - (1-3x+x^2) = x+1$$

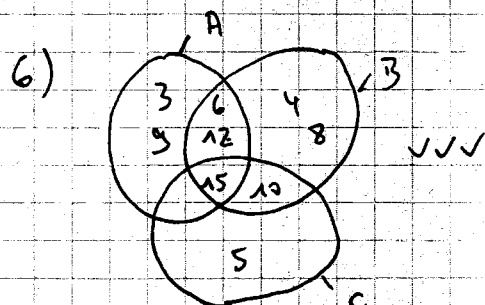
$$6x + x^2 - 3 - \frac{1}{2}x - 1 + 3x - x^2 = x+1$$

$$8\frac{1}{2}x - 4 = x+1$$

$$7\frac{1}{2}x = 5$$

4P

$$x = \frac{2}{3} \Rightarrow M = \left\{ \frac{2}{3} \right\}$$



$$a) A \cap B \cap C = \{15\}$$

$$b) (A \cup B) \setminus C = \{3, 4, 6, 8, 9, 12\}$$

6P

$$7. \quad A_{\square} = \frac{5x + 4x}{2} \cdot x = 4,5x^2 \quad \checkmark \checkmark$$

$$A_{\triangle} = \frac{1}{2} \cdot 3x \cdot 2x = 3x^2 \quad \checkmark \checkmark$$

7P

$$A_{\square} = x \cdot x = x^2 \quad \checkmark \checkmark$$

$$A_G = 2 \cdot 4,5x^2 + x^2 + 3x^2 = 13x^2 \quad \checkmark$$

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38P

$$x=1,5: \quad A_G = 13 \cdot 1,5^2 = 29,25 \text{ cm}^2 \quad \checkmark$$