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| | Navn: | | Skole: | |
| | Klasse: 20 | | Dato: 3. december 2020 | Fag: Matematik A |

Opgave 006

$$\begin{aligned}
 a) \quad & (a - b) \cdot (a + 3b) - (a - 2b) \cdot (a - 3b) \\
 & a^2 + 3ab - ba - 3b^2 - (a - 2b) \cdot (a - 3b) \\
 & a^2 + 2ab - 3b^2 - (a^2 - 3ab - 2ab + 6b^2) \\
 & a^2 + 2ab - 3b^2 - (a^2 - 5ab + 6b^2) \\
 & a^2 + 2ab - 3b^2 - a^2 + 5ab - 6b^2 \\
 & a^2 - a^2 + 2ab + 5ab - 3b^2 - 6b^2 \\
 & \underline{\underline{7ab - 9b^2}}
 \end{aligned}$$

$$\begin{aligned}
 b) \quad & a - (a^2 - (a^2 - (1 - a) \cdot (2 - a) + 2)) \\
 & a - (a^2 - (a^2 - (2 - a - 2a + a^2) + 2)) \\
 & a - (a^2 - (a^2 - 2 + a + 2a - a^2 + 2)) \\
 & a - (a^2 - a^2 + 2 - a - 2a + a^2 - 2) \\
 & a - a^2 + a^2 - 2 + a + 2a - a^2 + 2 \\
 & a + a + 2a - a^2 + a^2 - a^2 - 2 + 2 \\
 & 4a - a^2
 \end{aligned}$$

$$\begin{aligned}
 c) \quad & 3 - (d - 2) \cdot ((1 - a) + (-3 + 2a)) - 5a \\
 & 3 - (d - 2) \cdot (1 - a - 3 + 2a) - 5a \\
 & 3 - (d - 2) \cdot (-2 + a) - 5a \\
 & 3 - (-2d + da + 4 - 2a) - 5a \\
 & 3 + 2d - da - 4 + 2a - 5a \\
 & 3 - 4 + 2d - da + 2a - 5a \\
 & -1 + 2d - da - 3a
 \end{aligned}$$

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