

## Exercice d'autoévaluation 1

$$\begin{aligned}
 (-2a)^2 \cdot (-4x \cdot 2y - 3x \cdot 5y \cdot (-2)) &= (-2a)^2 \cdot (-8xy - (-30xy)) \\
 &= 4a^2 \cdot (-8xy + 30xy) \\
 &= 4a^2 \cdot 22xy \\
 &= 88a^2xy
 \end{aligned}$$

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|--|---------|
| 1) $-4a + 3b + 2 \cdot (-a - 2b)$                          | = ..... |
| 2) $-2x \cdot (-3y) - 4 \cdot 3xy$                         | = ..... |
| 3) $(2cd - 3c \cdot 2d) \cdot 5$                           | = ..... |
| <del>4) <math>(3a - 10a)^2 + a \cdot (1a + 2)</math></del> | = ..... |
| 5) $-5m \cdot (-2n) \cdot (-p) - 4p \cdot 3m \cdot (-2n)$  | = ..... |
| 6) $5ab - 6cd - 3ab + 4cd \cdot (-2)$                      | = ..... |
| 7) $3 \cdot (-a + 2b) + 2 \cdot (3a - 4b)$                 | = ..... |
| 8) $(2r)^2 \cdot (-3rs)$                                   | = ..... |
| 9) $-3x \cdot 2y + (-7) \cdot 2xy - xy$                    | = ..... |
| 10) $(4c - 6c + 3) \cdot (-2)$                             | = ..... |
| 11) $-2 \cdot (3a - 2) + 5a - 10$                          | = ..... |
| 12) $-3st \cdot 2t + 3s \cdot (-2t^2 + 2)$                 | = ..... |
| 13) $(-4u + 2 - 2 \cdot (-2u) - 2)^2$                      | = ..... |
| 14) $-(-4c + b) + 3 \cdot (-2c - b)$                       | = ..... |
| 15) $-12 + 3t + 2 \cdot (-5 + 7t)$                         | = ..... |
| 16) $5a \cdot (-3u - 2) - 10au$                            | = ..... |
| 17) $(-2)^3 \cdot (3x - 2y - 1)$                           | = ..... |
| 18) $-(-4a + 2a - b) + 2 \cdot (-3a - b)$                  | = ..... |
| 19) $-10id + 3i + 21di + 4 \cdot (i - 3i)$                 | = ..... |
| 20) $-3c \cdot (-4x) + 3x \cdot (-5c - 1)$                 | = ..... |

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|--|------------------------------------|
| 20) $-3c \cdot (-4x) + 3x \cdot (-5c - 1)$ | 1) $-6a - b$                       |
| 19) $11d - 5t / 11dt - 5t$                 | 2) $-6xy$                          |
| 18) $-4a - b$                              | 3) $-20cd$                         |
| 17) $-24x + 16y + 8$                       | <del>4) <math>3a - 2b</math></del> |
| 16) $-25am - 10a$                          | 5) $14mnp$                         |
| 15) $17t - 22$                             | 6) $2ab - 14cd$                    |
| 14) $-4b - 2c$                             | 7) $3a - 2b$                       |
| 13) $0$                                    | 8) $-12rs$                         |
| 12) $-12st + 6s$                           | 9) $-21xy$                         |
| 11) $-a - 6$                               | 10) $4c - 6$                       |

$$20) -3c \cdot (-4x) + 3x \cdot (-5c - 1) = 12cx + (-15cx) + (-3x) = 12cx - 15cx - 3x$$

## Exercice d'autoévaluation 2

$$\begin{aligned}
 & 3 \cdot (-4ax + 7b) - 2a \cdot (-5x + 2) \\
 &= -12ax + 21b + 10ax - 4a \\
 &= -2ax + 21b - 4a
 \end{aligned}$$

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|---|---|-------|
| 1) $-2a \cdot (3b - c) + 4 \cdot (ab - 2ac)$    | = | ..... |
| 2) $-(10x - 4y) - 2 \cdot (3x - 2y)$            | = | ..... |
| 3) $(12u - v - 10u) \cdot 4u$                   | = | ..... |
| 4) $-3a \cdot 5b - (-4a)$                       | = | ..... |
| 5) $7m \cdot (-2n) - n \cdot (3m - 4)$          | = | ..... |
| 6) $-5ab + 2ab - 3a \cdot (-2b)$                | = | ..... |
| 7) $(4cd \cdot (-3d) - 2d \cdot 5c) \cdot 2$    | = | ..... |
| 8) $(-3a)^3 \cdot (-5bc)$                       | = | ..... |
| 9) $-15kq - 3k \cdot 3q$                        | = | ..... |
| 10) $5a \cdot (-2c) \cdot 3b - 2ab \cdot (-2c)$ | = | ..... |
| 11) $-2x \cdot (-3x + 2) - (4x^2 - 5x)$         | = | ..... |
| 12) $(-4a + 5a - a) \cdot (-10 + b - 3b)$       | = | ..... |

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|-----------------|---------------------|
| 1) $-2ab - 6ac$ | 10) $-26abc$        |
| 2) $-16x + 8y$  | 9) $-24kq$          |
| 3) $8u^2 - 4uv$ | 8) $135a^3bc$       |
| 4) $-15ab + 4a$ | 7) $-24cd^2 - 20cd$ |
| 5) $-17mn + 4n$ | 6) $3ab$            |
| 11) $2x^2 + x$  | 5) $-17mn + 4n$     |
| 12) $0$         | 4) $-15ab + 4a$     |