La Mise en Évidence (2ème) - Exercices

Mets en évidence le (ou les) facteur(s) communs des expressions suivantes.

1. $20x^3y^2z^7 + 4x^3z^5 =$
2. $5xy - 45x =$
3. $35y + 25 =$
4. $16b^5c + 72a^5c^6 =$
5. $72x^4y^7 - 9x^7y^5z^3 =$
6. $20y - 5xy =$
7. $7 - xy =$
8. $27ab^5c + 9a^4b^4 =$
9. $5b^5c + 40a^5c^3 =$
10. $12xy + 6y =$
11. $14x - 6xy =$
12. $63yz^5 - 56z^5 =$
13. $54b + 45 =$
14. $72b^2c^6 + 63a^3c^2 =$
15. $18ab + 30b =$
16. $15b^7c^7 - 40ab^2c^4 =$
17. $28x^4y^2 - 20xy^6 =$
18. $35xy + 45 =$
19. $15x^9y^3z + 20x^4z^5 =$
20. $16x - 8 =$

La Mise en Évidence (2ème) - Solutions

1. $20x^3y^2z^7 + 4x^3z^5 = \mathbf{4x^3z^5 \cdot (5y^2z^2 + 1)}$
2. $5xy - 45x = \mathbf{5x \cdot (y - 9)}$
3. $35y + 25 = \mathbf{5 \cdot (7y + 5)}$
4. $16b^5c + 72a^5c^6 = \mathbf{8c \cdot (2b^5 + 9a^5c^5)}$
5. $72x^4y^7 - 9x^7y^5z^3 = \mathbf{9x^4y^5 \cdot (8y^2 - x^3z^3)}$
6. $20y - 5xy = \mathbf{5y \cdot (4 - x)}$
7. $7 - xy = \mathbf{1 \cdot (7 - xy)}$
8. $27ab^5c + 9a^4b^4 = \mathbf{9ab^4 \cdot (3bc + a^3)}$
9. $5b^5c + 40a^5c^3 = \mathbf{5c \cdot (b^5 + 8a^5c^2)}$
10. $12xy + 6y = \mathbf{6y \cdot (2x + 1)}$
11. $14x - 6xy = \mathbf{2x \cdot (7 - 3y)}$
12. $63yz^5 - 56z^5 = \mathbf{7z^5 \cdot (9y - 8)}$
13. $54b + 45 = \mathbf{9 \cdot (6b + 5)}$
14. $72b^2c^6 + 63a^3c^2 = \mathbf{9c^2 \cdot (8b^2c^4 + 7a^3)}$
15. $18ab + 30b = \mathbf{6b \cdot (3a + 5)}$
16. $15b^7c^7 - 40ab^2c^4 = \mathbf{5b^2c^4 \cdot (3b^5c^3 - 8a)}$
17. $28x^4y^2 - 20xy^6 = \mathbf{4xy^2 \cdot (7x^3 - 5y^4)}$
18. $35xy + 45 = \mathbf{5 \cdot (7xy + 9)}$
19. $15x^9y^3z + 20x^4z^5 = \mathbf{5x^4z \cdot (3x^5y^3 + 4z^4)}$
20. $16x - 8 = \mathbf{8 \cdot (2x - 1)}$