TRANSLATING FROM ENGLISH PHRASES TO MATHEMATICAL EXPRESSIONS AND VICE VERSA

I. Translate each of the following English phrases into a mathematical expression
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1. the sum of x and y
2. the product of x and y
3. the difference of x and y
4. the sum of x and the difference of y and z
5. the sum of x and the sum of y and z
6. the product of x and the sum of y and z
7. the product of x and the difference of y and z
8. the difference of the product of x and y and z
9. the product of the sum of x and y and the difference of x and y
10. the product of x and the sum of y and z
11. x more than y
12. x less than y

II. Translate each of the following mathematical expressions into an English phrase using the words sum, difference, product and/or quotient.

13. x(y + z)
14. xy + xz
15. z (x – y)
16. (x + z) + (y – z)
17. x(y – z)

Answers:
1. $x + y$
2. xy
3. $x - y$
4. $x + (y - z)$
5. $x + (y + z)$
6. $x(y + z)$
7. $x(y - z)$
8. $xy - z$
9. $(x + y)(x - y)$
10. $x(y + z)$
11. $y + x$
12. $y - x$
13. the product of x and the sum of y and z
14. the sum of the product of x and y and the product of x and z
15. the product of z and the difference of x and y
16. the sum of the sum of x and z and the difference of y and z
17. the product of x and the difference of y and z