EffortlessMath

Math Worksheets

Name: _____

Date: _____

Factor Polynomials

Factor each trinomial.

1) $x^2 + 8x + 15 =$

2) $x^2 - 5x + 6 =$

3) $x^2 + 6x + 8 =$

4) $x^2 - 6x + 8 =$

5) $x^2 - 8x + 16 =$

6) $x^2 - 7x + 12 =$

7) $x^2 + 11x + 18 =$

8) $x^2 + 2x - 24 =$

9) $x^2 + 4x - 12 =$

10) $x^2 - 10x + 9 =$

11) $x^2 + 5x - 14 =$

12) $x^2 - 6x - 27 =$

13) $x^2 - 11x - 42 =$

14) $x^2 + 22x + 121 =$

15) $6x^2 + x - 12 =$

16) $x^2 - 17x + 30 =$

17) $3x^2 + 11x - 4 =$

18) $10x^2 + 33x - 7 =$

19) $x^2 + 24x + 144 =$

20) $8x^2 + 10x - 3 =$

Solve each problem.

21) The area of a rectangle is $x^2 + 2x - 24$. If the width of rectangle is $x - 4$, what is its length? _____

22) The area of a parallelogram is $8x^2 + 2x - 6$ and its height is $2x + 2$. What is the base of the parallelogram? _____

23) The area of a rectangle is $18x^2 + 9x - 2$. If the width of the rectangle is $6x - 1$, what is its length? _____

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Answers

Factor polynomials

1) $(x+3)(x+5)$
2) $(x-2)(x-3)$
3) $(x+4)(x+2)$
4) $(x-2)(x-4)$
5) $(x-4)(x-4)$
6) $(x-3)(x-4)$
7) $(x+2)(x+9)$
8) $(x+6)(x-4)$
9) $(x-2)(x+6)$
10) $(x-1)(x-9)$
11) $(x-2)(x+7)$
12) $(x-9)(x+3)$
13) $(x+3)(x-14)$
14) $(x+11)(x+11)$
15) $(2x+3)(3x-4)$
16) $(x-15)(x-2)$
17) $(3x-1)(x+4)$
18) $(5x-1)(2x+7)$
19) $(x+12)(x+12)$
20) $(4x-1)(2x+3)$
21) $(x+6)$
22) $(4x-3)$
23) $(3x+2)$