

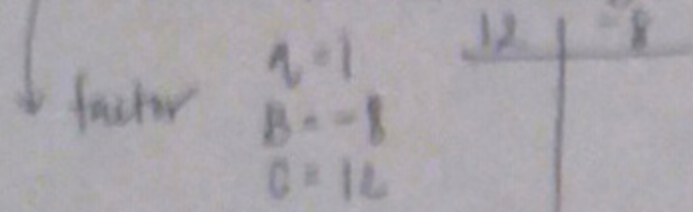
UNIT 4

Section 1: Factoring Quadratic Equations

27. The expression below represents the area, in square meters, of a rectangle.

$$x^2 - 8x + 12$$

Which of the following pairs of expressions could represent the length and width, in meters, of the rectangle?

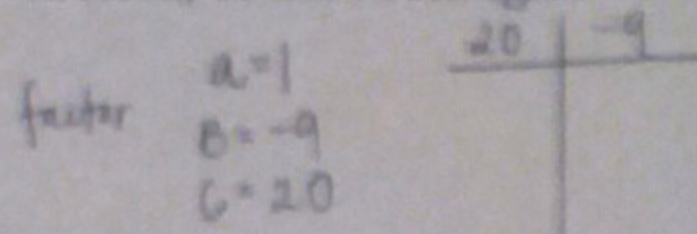


- A. $(x - 3)(x - 4)$ B. $(x + 2)(x + 6)$
 C. $(x - 2)(x - 6)$ D. $(x + 3)(x + 4)$

28. The expression below represents the area, in square meters, of a rectangle.

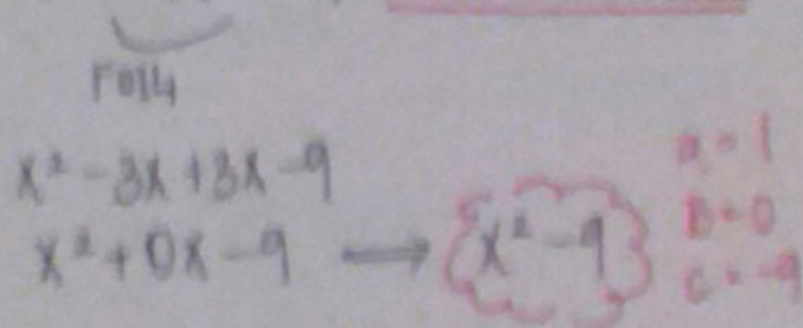
$$x^2 - 9x + 20$$

Which of the following pairs of expressions could represent the length and width, in meters, of the rectangle?



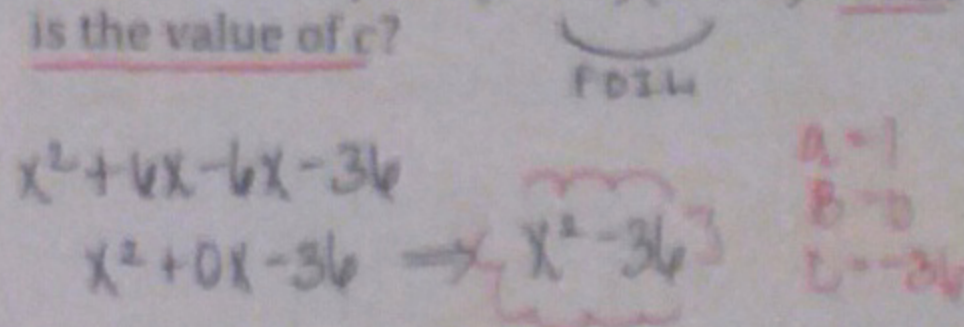
- A. $(x + 5)(x + 4)$ B. $(x + 2)(x + 10)$
 C. $(x - 2)(x - 10)$ D. $(x - 5)(x - 4)$

29. When factored the quadratic $x^2 + bx + c$ equals $(x - 3)(x + 3)$. What is the value of c ?



- A. 9 B. -9 C. 0 D. -3

30. When factored the quadratic $x^2 + bx + c$ equals $(x - 6)(x + 6)$. What is the value of c ?



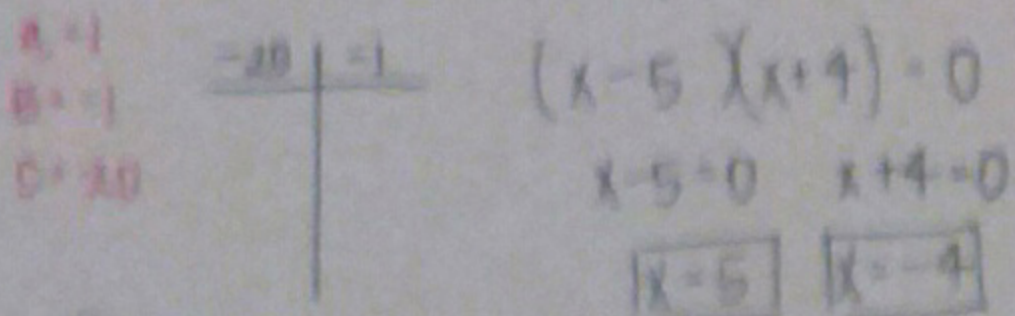
- A. -6 B. 0 C. -36 D. 36

UNIT 5

Section 1: Solving by Factoring

31. Which of the following are the solutions of the quadratic equation below? *factor & solve*

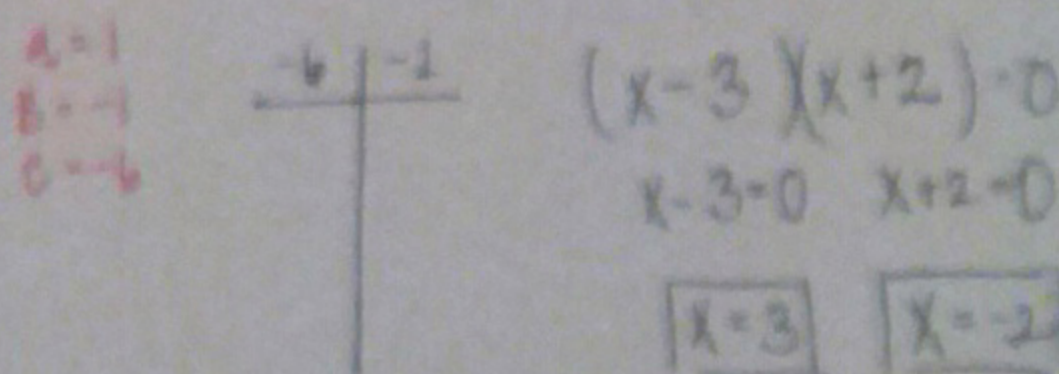
$$x^2 - x - 20 = 0$$



- A. $x = -4; x = 5$ B. $x = -2; x = 10$
 C. $x = 2; x = -10$ D. $x = 4; x = -5$

32. What are the solutions of the quadratic equation below? *factor & solve*

$$x^2 - x - 6 = 0$$



- $x = 3$ $x = -2$