Factorization: Worksheet -4

1.
$$(a+b)^2 - (a-b)^2 =$$

2.
$$(x-y)^2 - (x+y)^2 =$$

- 3. _____ should be added to $x^2 + 10x + 22$ to make it a perfect square.
- 4. _ _ _ should be subtracted to $x^2 + 8x + 20$ to make it a perfect square.

5.
$$\frac{(a+b)^2 + (a-b)^2}{a^2 + b^2} = -----$$

6.
$$(a + b)^2 = (a - b)^2 + _____$$

8. If
$$x - y = 2$$
 and $xy = 15$, then $x^2 + y^2 = ______$

10. The difference of a square of two quantities is equal to the ______
___ of their sum and their difference.

11.
$$\frac{a^2-b^2}{a-b} = ----$$

