

$$(a+b)^2 = a^2 + b^2 + 2ab$$

$$(m-n)^2 = m^2 + n^2 - 2mn$$

$$(t+e)(t-e) = t^2 - e^2$$

$$(2a+5b)(2a-5b)$$

$$4a^2 - 25b^2$$
$$2a \quad 5b$$

$$x^2 + 4x + 4 = (x + 2)^2$$

$$25a^2 - 20a + 4 = (5a - 2)^2$$
$$5a \quad 2$$

$$\frac{x^2-4}{x^2-4x+4} = \frac{(x+2)(x-2)}{(x-2)^2} = \frac{(x+2)\cancel{(x-2)}}{(x-2)\cancel{(x-2)}} = \frac{x+2}{x-2}$$

$$\frac{5a+5b}{a^2+ab} = \frac{5\cancel{(a+b)}}{a\cancel{(a+b)}} = \frac{5}{a}$$

$$\frac{a^2-b^2}{3a+3b} = \frac{\cancel{(a+b)}(a-b)}{3\cdot\cancel{(a+b)}} = \frac{a-b}{3}$$