

1°.

$$\frac{a^3 + b^3}{(a - b)^2 + ab} = \frac{a^3 + b^3}{a^2 - ab + b^2} = a + b.$$

2°.

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

3°.

$$\frac{xy - 2x - 3y + 6}{xy - 2x} = \frac{(x - 3)(y - 2)}{x(y - 2)} = \frac{x - 3}{x}.$$