Disceret math bank formula

1. Number of divisors of 4500:

4500 Q 2250 Q 1/26 3 375 3 125 5 25 5 5	prime 1
even divisors = AI	1 - 0 d = 36 - 2 = 24 $(3+1)=12$

2. Number of zeros in n!:

$$mod(A|B) + mod(A|25) + mod(A|125) + oo$$

$$|00! = 7(100)5) + (100)25) = 20 + 4 = 24$$

3. Diophantine equation:

$$0 + by = 0$$

$$x = x_0 + t \frac{b}{gcd(a,b)}$$

$$y = y - t \frac{a}{a}$$

 $y = y_0 - t \frac{\alpha}{g(d(\alpha)b)}$ Where (x_0, y_0) Note: the equation have answer if $g(d(\alpha)b) = f(\alpha)b$