Hand in 1 Losning

Assignment 1

(a)
$$4 = e^{x} + y$$
 (b) $y = 10^{2+1/x}$
 $e^{x} = 4 - y$ $\log(y) = \frac{2}{2} + \frac{1}{x}$
 $x = (\ln(4 - y))$ $\frac{1}{x} = (\log(y) - \frac{2}{2})$
 $x = (\log$

Assignment 3 Find god og lun (a) qcd (22,33-55,25,33.52) = 22,33 52 (cm (22 33 55, 25 · 33 · 52) = 25 · 33 · 55 (b) acd(2.3.5.7.11.13, 2".39.11.17")=2.3.11. (cm (2.3-5.7.11.13, 2".39.11.12") = 2".39.5.7.11.13.17" a · b = gcd(a, b) · Lcm(a, b) (C) Behraft reglin for (a) og (b) a b = 22.33.55.25.33.52 = 27.36.57 det passer acd(a,b). (cm(a,b) = 22.33.52.25.33.58 = (27.36.57) a.b=2.3.5.7.11 13.2" 39.11.1714 = (212.30.5.7.112.13.1714) C passer acd(a,b) (cm(a,b) = 2.3.11.24.39.5.7.11.13.1714=(212.30.5.7.112.13.1714) (d) a b = 27.38.52.74 og gcd(a, b) = 23.34.5 (cm(a,b) = a.b = 27.38.52.7" = 24.34.5.7"

Assignment 4 (a) 231 mod 12 = 3 19.12 + 3 = 228 + 3 = 231 da (b) 88 mod 12 = 4 7-12+4 = 84+4 = 88 da 669+5=594+5=599 (c) 599 mod 9 = 5 da 44.9+4=396+4=400 (d) 400 mod 9 = 4 da Tick om (a+b) mod m = (a mod m + b mad m) mod m (e) (231+88) mod 12 = 319 mod 12 = 7 (231 mod 12 + 88 mod 12) mod 12 = (3+4) mod 12 = 7 (1) (599+400) mod 9 = 999 mod 9 = 1016 (599 mod 9 + 400 mod 9) mod 9 = (5 + 4) mod 9 = 0