

Q1. Solve for x. Give our answer to 3 significant figures.

$$5^{x+3} = 7^{x-1}$$

Ans : 20.1

Q2. Solve for x. Give our answer to 3 significant figures.

$$3^x + 3^{2x} = 3^{3x}$$

Ans: 0.438

Q3. Solve giving your answer to 3 decimal places

$$e^x = 3^{x-2}$$

Ans: 22.281

Q4. Solve for x. Give your answer to 3 significant figures.

$$2^x + 3(2^{-x}) = 4$$

Ans: 0, 1.58

Q5. Given the below, express p in terms of q .

$$\ln p = 2\ln q + \ln(q + 3)$$

Ans:

$$p = \frac{q^2}{3 + q}$$

Reference : Cambridge pure mathematics 2 for A level