Solving Exponential Equations – Part 2:

Solve:

$$4^x = 16^{x-3}$$

Solve:

$$4^x = 9$$

Solve:

$$7^x = 3$$

$$6^{2x+1} = 20$$

PRACTICE

Solve each equation, giving your answer to the degree of accuracy stated.

1 $2^x = 5$ (2 d.p.)

2 $2^{2x+1} = 5$ (3 d.p.)

3 $5^{x-1} = 3$ (2 s.f.)

4 $3^{2x+1} = 5$ (3 s.f.)

5 $4 \times 2^x = 6$ (2 d.p.)

6 $2 \times 2^{x-1} = 6$ (2 d.p.)

7 $\dfrac{2^x}{3} = 6$ (2 s.f.)

8 $\dfrac{2^{2x-3}}{3} = 16$ (2 s.f.)