

EKSPONEN

5. $\sqrt[3]{8^{4x+1}} = 1$

$$\sqrt[3]{(2^3)^{4x+1}} = 2^0$$

$$\left(2^3\right)^{4x+1} = 2^0$$

$$2^{\dots\dots\dots} = 2^0$$

$$4x + 1 = 0$$

$$4x = \dots\dots\dots$$

$$x = \dots\dots\dots$$

6. $\frac{9^{2x-1}}{27^{x-1}} = 3$

$$\frac{(3^{\dots})^{2x-1}}{(3^{\dots})^{x-1}} = 3^1$$

$$\frac{3^{\dots\dots\dots}}{3^{\dots\dots\dots}} = 3^1$$

$$3^{4x-2-(\dots\dots\dots)} = 3^1$$

$$3^{\dots\dots\dots} = 3^1$$

$$x + 1 = \dots\dots\dots$$

$$x = \dots\dots\dots$$

7. $\sqrt{4^{x+4}} = \left(\frac{1}{32}\right)^{6-x}$

$$(2^{\dots})^{x+4} = (2^{\dots})^{6-x}$$

$$2^{\dots\dots\dots} = 2^{\dots\dots\dots}$$

$$x + 4 = \dots\dots\dots$$

$$4x = \dots\dots\dots$$

$$x = \frac{\dots\dots\dots}{2}$$

SMART

LIVEWORKSHEETS