

Logs

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2:34 PM

$$f) \log_{\frac{5}{3}} 32 = \frac{5}{3}$$

$$g) \log_{3^2} 81 = 2$$

$$h) \log_3(\log_2(\log_4 16)) = -1$$

Boot the base

Ex: $\log_a b = c$
 $b = a^c$

$$\log_x 8 = 2$$
$$\sqrt{8} = \sqrt{x^2}$$

$$\pm\sqrt{8} = x$$

reject $-\sqrt{8}$

$$x = \sqrt{8}$$

base of log or exponent

$$> 0 \quad \log_x 2 \quad \log_x x$$

$$x > 0 \quad x > 0$$

$$\log_2(\log_4(\log_x 2)) = 1$$

$$\log_4(\log_x 2) = 2$$

$$\log_x 2 = 4^2$$

$$\log_x 2 =$$