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Give exact answers where possible

Problem	Answer	Problem	Answer
1. $\log_2 32$		4. Solve $3^x = 81$	
2. $\log_{10} 0.001$		5. Solve $2^x = 40$	
3. $\ln e^4$		6. Solve $\log_5(x) = 3$	

Notes

Answer key — Evaluate and solve

#	Problem	Answer
1	$\log_2 32$	5
2	$\log_{10} 0.001$	-3
3	$\ln e^4$	4
4	Solve $3^x = 81$	$x = 4$
5	Solve $2^x = 40$	$x = \ln 40 / \ln 2 \approx 5.32$
6	Solve $\log_5(x) = 3$	$x = 125$

Notes