APPLYING PROPERTIES

Solving: Work With a Partner

Solve each equation. Take turns writing the next step in the solving process. Show your work on a separate piece of paper.

1) $\log(x+2)+\log(x)=\log(3)$

2) $\log_3\left(n^2+5\right)-\dfrac{1}{2}\log_3(4)=1$

3) $\ln(-a-7)-2\ln(5)=4$

4) $\log(x)-\log(4)+3\log(2)=2$

Evaluating: Work Independently

Use the given information below to evaluate each expression. Show your work on this paper.

Given

$\log_b(2)=8$ $\log_b(5)=20$ $\log_b(12)=29.5$

$\log_b(3)=13.5$ $\log_b(8)=24$ $\log_b(15)=33.5$

$\log_b(4)=16$ $\log_b(10)=28$ $\log_b(18)=35$

Evaluate

1) $\log_b(6)=$

2) $\log_b(20)=$

3) $\log_b(64)=$