

## 6.2.1 EXERCISES

In Exercises 1 - 15, expand the given logarithm and simplify. Assume when necessary that all quantities represent positive real numbers.

1.  $\ln(x^3y^2)$

2.  $\log_2\left(\frac{128}{x^2+4}\right)$

3.  $\log_5\left(\frac{z}{25}\right)^3$

4.  $\log(1.23 \times 10^{37})$

5.  $\ln\left(\frac{\sqrt{z}}{xy}\right)$

6.  $\log_5(x^2 - 25)$

7.  $\log_{\sqrt{2}}(4x^3)$

8.  $\log_{\frac{1}{3}}(9x(y^3 - 8))$

9.  $\log(1000x^3y^5)$

10.  $\log_3\left(\frac{x^2}{81y^4}\right)$

11.  $\ln\left(\sqrt[4]{\frac{xy}{ez}}\right)$

12.  $\log_6\left(\frac{216}{x^3y}\right)^4$

13.  $\log\left(\frac{100x\sqrt{y}}{\sqrt[3]{10}}\right)$

14.  $\log_{\frac{1}{2}}\left(\frac{4\sqrt[3]{x^2}}{y\sqrt{z}}\right)$

15.  $\ln\left(\frac{\sqrt[3]{x}}{10\sqrt{yz}}\right)$

In Exercises 16 - 29, use the properties of logarithms to write the expression as a single logarithm.

16.  $4\ln(x) + 2\ln(y)$

17.  $\log_2(x) + \log_2(y) - \log_2(z)$

18.  $\log_3(x) - 2\log_3(y)$

19.  $\frac{1}{2}\log_3(x) - 2\log_3(y) - \log_3(z)$

20.  $2\ln(x) - 3\ln(y) - 4\ln(z)$

21.  $\log(x) - \frac{1}{3}\log(z) + \frac{1}{2}\log(y)$

22.  $-\frac{1}{3}\ln(x) - \frac{1}{3}\ln(y) + \frac{1}{3}\ln(z)$

23.  $\log_5(x) - 3$

24.  $3 - \log(x)$

25.  $\log_7(x) + \log_7(x - 3) - 2$

26.  $\ln(x) + \frac{1}{2}$

27.  $\log_2(x) + \log_4(x)$

28.  $\log_2(x) + \log_4(x - 1)$

29.  $\log_2(x) + \log_{\frac{1}{2}}(x - 1)$

# Practice 8 4 Properties Of Logarithms Answers

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web thin wall cylinder objective to study the stress and strain developed in a thin wall cylinder under internal pressure to

determine the poisson's ratio  $\nu$  and the young's modulus of elasticity  $E$  for the cylinder material apparatus fig 1 shows a thin walled cylinder of aluminum containing a freely supported piston

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web ton thin wall cylinders because the 14 ton thin wall cylinders contain the bulk of the duff6 inventory most calculations of cylinder stresses due to handling have been done for that type of cylinder the present report documents as many of the cases done at oak ridge for 14 ton thin wall cylinders as possible giving results and a

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web thin walled structures comprise an important and growing proportion of engineering construction with areas of application becoming increasingly diverse ranging from aircraft automotive bridges ships oil rigs to storage vessels industrial buildings and warehouses many factors including cost and weight economy new materials and processes and the

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web consider now a simple spherical vessel of radius  $r$  and wall thickness  $b$  such as a round the accuracy of this result depends on the vessel being thin walled i.e.  $r \gg b$  at the inner cylinder now expands according to the difference  $p_i - p_o$  while

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web thin walled vessels are typically either spherical or cylindrical other geometries are possible but their complexity precludes their inclusion in this webpage spherical cylinder stress and deflection filled to depth  $d$  with liquid of density  $\rho$  force unit volume tangential edge support equation and calculator

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web thin walled circular cylinders these stresses which entail a triaxial stress state can be readily obtained by simply setting equilibrium conditions i.e. without making use of compatibility conditions

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web in chapter 2 we examined the stresses in thin walled cylinders subjected to internal pressure the assumption of thin walls allowed us to develop a simple analysis that ignored the variation of radial stress when the wall thickness becomes appreciable in proportion

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web oct 12 2011 if the cylinder walls are thin and the ratio of the thickness to the internal diameter is less than about then it can be assumed that the hoop and longitudinal stresses are constant across the thickness it may also be assumed that the radial stress is small and can be neglected

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web a fluid container sealed by a piston is open c in this case an external axial force  $f_a$  is mandatory for equilibrium of the overall piston and cylinder assembly a bicycle pump is a common example if  $A_i$  is the internal circular area then a free body of either piston or cylinder end c must have  $f_a = p_i A_i$  and there is no need for axial wall stresses to

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web the classic equation for hoop stress created by an internal pressure on a thin wall cylindrical pressure vessel is  $\sigma_\theta = p d / 2 t$  for the hoop stress thin wall pressure vessel hoop stress calculator where  $p$  is the internal pressure  $t$  is the wall thickness  $r$  is the inside radius of the cylinder

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web when a thin walled tube or cylinder is subjected to internal pressure a hoop and longitudinal stress are produced in the wall for the thin walled equations below the wall thickness is less than  $1/20$  of tube or cylinder diameter hoop circumferential stress

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web apr 5 2021 this experiment provides the insight on thin walled pressure cylinders where thickness is less than or equal to  $1/10$  of the internal diameter when axial and biaxial load is applied on it