



Calculus ex01

10, Apr, 2019

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← Please encode your student number, and write your first and last names below.

First name and last name:

Questions with a ♣ may have zero, one or more right answers.

Question 1 Evaluate 6^4 .

- ☐ 7776 ☐ 1297 ☐ 1295 ☐ 216 ☐ 1296

Question 2 Evaluate 3^{-1} .

- ☐ $\sqrt{3}$ ☐ $\frac{1}{3}$ ☐ -4 ☐ -3 ☐ $\frac{1}{4}$

Question 3 Evaluate $8^{\frac{1}{2}}$.

- ☐ $\sqrt{8}$ ☐ -8 ☐ $\pm\sqrt{a}$ ☐ $\frac{1}{8}$ ☐ $\frac{1}{9}$

Question 4 ♣ Evaluate $(\frac{1}{5})^{-2}$.

- ☐ $(\frac{1}{5^2})^{-1}$ ☐ 5^2 ☐ $(5^2)^{-1}$ ☐ $\sqrt[2]{5}$ ☐ $\frac{1}{5^2}$
- ☐ None of these answers are correct.

Question 5 Evaluate $2^9 \times 2^7$.

- ☐ 2^3 ☐ 2^{16} ☐ 2^{63} ☐ 2^{62} ☐ 2^{17}

Question 6 Solve the equation $\log_x 36 = 2$.

- ☐ 12 ☐ 8 ☐ 2 ☐ 6 ☐ 3

Question 7 Solve the equation $\log_6 x = 3$.

- ☐ 5^3 ☐ 6^3 ☐ 6^4 ☐ 5^4 ☐ 6^2

Question 8 Solve the equation $\log_2(3-x) = 4\log_{16}(x+1)$.

- ☐ 0 ☐ 2 ☐ -2 ☐ -1 ☐ 1



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Question 1 Evaluate 5^4 .

- ☐ 624 ☐ 626 ☐ 3125 ☐ 625 ☐ 125

Question 2 Evaluate 2^{-1} .

- ☐ -3 ☐ $\sqrt{2}$ ☐ $\frac{1}{2}$ ☐ -2 ☐ $\frac{1}{3}$

Question 3 Evaluate $5^{\frac{1}{2}}$.

- ☐ $\frac{1}{5}$ ☐ $\sqrt{5}$ ☐ $\pm\sqrt{a}$ ☐ $\frac{1}{6}$ ☐ -5

Question 4 ♣ Evaluate $(\frac{1}{7})^{-4}$.

- ☐ $\sqrt[4]{7}$ ☐ $(\frac{1}{7^4})^{-1}$ ☐ $\frac{1}{7^4}$ ☐ $(7^4)^{-1}$ ☐ 7^4
- ☐ None of these answers are correct.

Question 5 Evaluate $2^8 \times 2^6$.

- ☐ 2^{14} ☐ 2^{47} ☐ 2^{15} ☐ 2^3 ☐ 2^{48}

Question 6 Solve the equation $\log_x 216 = 3$.

- ☐ 6 ☐ 18 ☐ 4 ☐ 9 ☐ 3

Question 7 Solve the equation $\log_6 x = -3$.

- ☐ 6^{-2} ☐ 5^{-2} ☐ 6^{-4} ☐ 5^{-3} ☐ 6^{-3}

Question 8 Solve the equation $\log_5(5-x) = 2\log_{25}(x+1)$.

- ☐ 0 ☐ 4 ☐ 3 ☐ 1 ☐ 2