

Calculus ex01

10, Apr, 2019

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☐1 ☐1 ☐1 ☐1 ☐1 ☐1 ☐1 ☐1
☐2 ☐2 ☐2 ☐2 ☐2 ☐2 ☐2 ☐2
☐3 ☐3 ☐3 ☐3 ☐3 ☐3 ☐3 ☐3
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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 [power01] Evaluate 6^4 .

☒ 1296 ☐ 7776 ☐ 216 ☐ 1297 ☐ 1295

Question [power02] Evaluate 3^{-1} .

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

Question [power03] Evaluate $8^{\frac{1}{2}}$.

☒ $2\sqrt{2}$ ☐ -8 ☐ 64 ☐ $\pm 2\sqrt{2}$ ☐ $\frac{1}{8}$

Question [power04] ♣ Evaluate $(\frac{1}{5})^{-2}$.

☒ 5^2 ☒ $(\frac{1}{5^2})^{-1}$ ☐ $(5^2)^{-1}$ ☐ $\frac{1}{5^2}$ ☐ $\sqrt[3]{5}$
☐ None of these answers are correct.

Question [power05] Evaluate $2^9 \times 2^7$.

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

Question [log01] Solve the equation $\log_x 36 = 2$.

☒ 6 ☐ 2 ☐ 8 ☐ 12 ☐ 3

Question [log02] Solve the equation $\log_6 x = 3$.

☒ 6^3 ☐ 5^4 ☐ 6^2 ☐ 6^4 ☐ 5^3

Question [log03] Solve the equation $\log_2(3-x) = 4\log_{16}(x+1)$.

☒ 1 ☐ -2 ☐ -1 ☐ 0 ☐ 2