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
○4 ○4 ○4 ○4 ○4 ○4 ○4 ○4
○5 ○5 ○5 ○5 ○5 ○5 ○5 ○5
○6 ○6 ○6 ○6 ○6 ○6 ○6 ○6
○7 ○7 ○7 ○7 ○7 ○7 ○7 ○7
○8 ○8 ○8 ○8 ○8 ○8 ○8 ○8
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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 $8^{\frac{1}{2}}$.

● $2\sqrt{2}$ ○ -8 ○ $\pm 2\sqrt{2}$ ○ $\frac{1}{8}$ ○ 64

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

● $\left(\frac{1}{5^2}\right)^{-1}$ ● 5^2 ○ $\left(5^2\right)^{-1}$ ○ $\sqrt[2]{5}$ ○ $\frac{1}{5^2}$
○ *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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○0 ○0 ○0 ○0 ○0 ○0 ○0 ○0
○1 ○1 ○1 ○1 ○1 ○1 ○1 ○1
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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 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 $5^{\frac{1}{2}}$.

○ $\frac{1}{5}$ ● $\sqrt{5}$ ○ $\pm\sqrt{5}$ ○ 25   ○ −5

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

○ $\sqrt[4]{7}$ ● $\left(\frac{1}{7^4}\right)^{-1}$ ○ $\frac{1}{7^4}$ ○ $\left(7^4\right)^{-1}$ ● 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

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$\longleftarrow$ 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 7^4.

$\bigcirc$ 16807 $\bigcirc$ 2400 $\bigcirc$ 343 $\bigcirc$ 2402   ● 2401

Question 2   Evaluate 8^{-1}.

$\bigcirc$ -9 $\bigcirc$ $\frac{1}{9}$ $\bigcirc$ $\sqrt{8}$ ● $\frac{1}{8}$ $\bigcirc$ -8

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

$\bigcirc$ -2 $\bigcirc$ $\frac{1}{2}$ $\bigcirc$ 4 $\bigcirc$ $\pm\sqrt{2}$ ● $\sqrt{2}$

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

$\bigcirc$ $\left(7^4\right)^{-1}$ ● $\left(\frac{1}{7^4}\right)^{-1}$ $\bigcirc$ $\sqrt[4]{7}$ $\bigcirc$ $\frac{1}{7^4}$ ● 7^4
$\bigcirc$ *None of these answers are correct.*

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

$\bigcirc$ 2^{47} ● 2^{14} $\bigcirc$ 2^3 $\bigcirc$ 2^{15} $\bigcirc$ 2^{48}

Question 6   Solve the equation $\log_x 16 = 2$.

$\bigcirc$ 2 $\bigcirc$ 3 $\bigcirc$ 6 $\bigcirc$ 8   ● 4

Question 7   Solve the equation $\log_4 x = -1$.

$\bigcirc$ 4^{-2} ● 4^{-1} $\bigcirc$ 3^0 $\bigcirc$ 3^{-1} $\bigcirc$ 4^0

Question 8   Solve the equation $\log_3(2 - x) = 3\log_{27}(x + 5)$.

$\bigcirc$ -3.5 $\bigcirc$ -2.5 ● -1.5 $\bigcirc$ -4.5 $\bigcirc$ -0.5
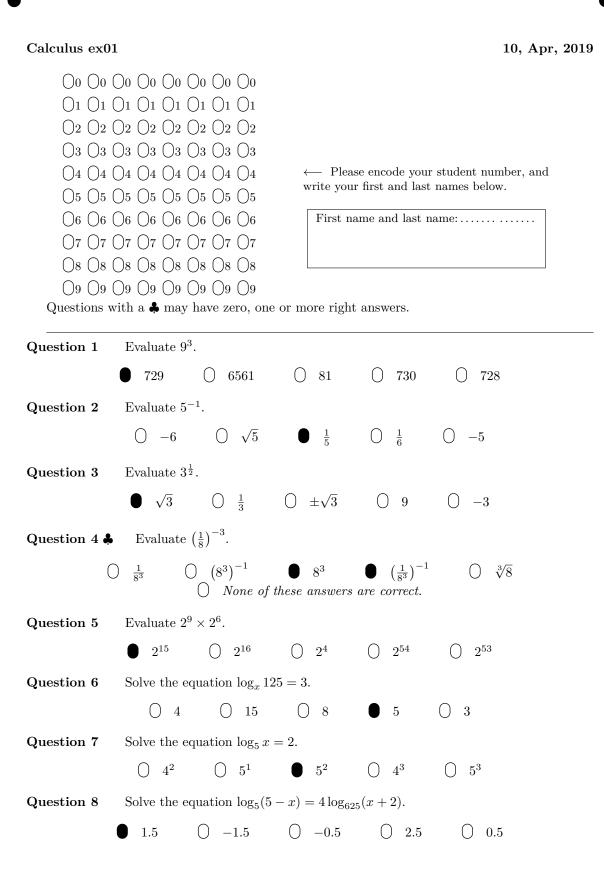
Calculus ex01   **10, Apr, 2019**

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○4 ○4 ○4 ○4 ○4 ○4 ○4 ○4
○5 ○5 ○5 ○5 ○5 ○5 ○5 ○5
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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 7^4.

○ 343   ○ 16807   ● 2401   ○ 2400   ○ 2402

Question 2   Evaluate 9^{-1}.

○ $\frac{1}{10}$ ○ -10 ○ -9 ○ $\sqrt{9}$ ● $\frac{1}{9}$

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

○ $\pm 2\sqrt{2}$ ○ $\frac{1}{8}$ ● $2\sqrt{2}$ ○ 64   ○ -8

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

○ $\left(2^4\right)^{-1}$ ○ $\frac{1}{2^4}$ ● 2^4 ● $\left(\frac{1}{2^4}\right)^{-1}$ ○ $\sqrt[4]{2}$
○ *None of these answers are correct.*

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

○ 2^4 ○ 2^{40} ○ 2^{14} ○ 2^{39} ● 2^{13}

Question 6   Solve the equation $\log_x 64 = 3$.

○ 12   ○ 4   ● 4   ○ 3   ○ 7

Question 7   Solve the equation $\log_7 x = -2$.

○ 7^{-1} ○ 6^{-1} ○ 7^{-3} ● 7^{-2} ○ 6^{-2}

Question 8   Solve the equation $\log_2(2 - x) = 2\log_4(x + 6)$.

● -2 ○ -3 ○ 0   ○ -4 ○ -1

Calculus ex01   **10, Apr, 2019**

○0 ○0 ○0 ○0 ○0 ○0 ○0 ○0
○1 ○1 ○1 ○1 ○1 ○1 ○1 ○1
○2 ○2 ○2 ○2 ○2 ○2 ○2 ○2
○3 ○3 ○3 ○3 ○3 ○3 ○3 ○3
○4 ○4 ○4 ○4 ○4 ○4 ○4 ○4
○5 ○5 ○5 ○5 ○5 ○5 ○5 ○5
○6 ○6 ○6 ○6 ○6 ○6 ○6 ○6
○7 ○7 ○7 ○7 ○7 ○7 ○7 ○7
○8 ○8 ○8 ○8 ○8 ○8 ○8 ○8
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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 9^3.

○ 730   ○ 6561   ○ 81   ● 729   ○ 728

Question 2   Evaluate 7^{-1}.

○ −8   ● $\frac{1}{7}$ ○ $\sqrt{7}$ ○ −7   ○ $\frac{1}{8}$

Question 3   Evaluate $4^{\frac{1}{2}}$.

○ −4   ○ ±2   ○ $\frac{1}{4}$ ○ 16   ● 2

Question 4 ♣   Evaluate $\left(\frac{1}{7}\right)^{-3}$.

● 7^3 ● $\left(\frac{1}{7^3}\right)^{-1}$ ○ $\left(7^3\right)^{-1}$ ○ $\sqrt[3]{7}$ ○ $\frac{1}{7^3}$

○ *None of these answers are correct.*

Question 5   Evaluate $2^7 \times 2^8$.

○ 2^{16} ○ 2^{56} ● 2^{15} ○ 2^{55} ○ 2^2

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

○ 3   ○ 18   ○ 4   ○ 9   ● 6

Question 7   Solve the equation $\log_4 x = 3$.

○ 4^4 ○ 4^2 ○ 3^4 ○ 3^3 ● 4^3

Question 8   Solve the equation $\log_4(5 - x) = 3\log_{64}(x + 7)$.

○ 1   ○ −2   ● −1   ○ 2   ○ 0

Calculus ex01   **10, Apr, 2019**

Question 1   Evaluate 6^4.

● 1296   ○ 1295   ○ 7776   ○ 1297   ○ 216

Question 2   Evaluate 7^{-1}.

○ $\sqrt{7}$ ○ -7 ○ -8 ● $\frac{1}{7}$ ○ $\frac{1}{8}$

Question 3   Evaluate $9^{\frac{1}{2}}$.

○ ± 3 ○ -9 ● 3 ○ $\frac{1}{9}$ ○ 81

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

● $\left(\frac{1}{2^5}\right)^{-1}$ ○ $\left(2^5\right)^{-1}$ ● 2^5 ○ $\sqrt[5]{2}$ ○ $\frac{1}{2^5}$

○ *None of these answers are correct.*

Question 5   Evaluate $2^7 \times 2^6$.

● 2^{13} ○ 2^2 ○ 2^{42} ○ 2^{41} ○ 2^{14}

Question 6   Solve the equation $\log_x 25 = 2$.

● 5   ○ 10   ○ 7   ○ 3   ○ 2

Question 7   Solve the equation $\log_6 x = 0$.

● 6^0 ○ 6^1 ○ 6^{-1} ○ 5^0 ○ 5^1

Question 8   Solve the equation $\log_3(7 - x) = 2\log_9(x + 1)$.

○ 1   ● 3   ○ 4   ○ 2   ○ 5

Calculus ex01   **10, Apr, 2019**

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○3 ○3 ○3 ○3 ○3 ○3 ○3 ○3
○4 ○4 ○4 ○4 ○4 ○4 ○4 ○4   ⟵ Please encode your student number, and
○5 ○5 ○5 ○5 ○5 ○5 ○5 ○5   write your first and last names below.
○6 ○6 ○6 ○6 ○6 ○6 ○6 ○6
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Questions with a ♣ may have zero, one or more right answers.

Question 1   Evaluate 9^3.

○ 730   ○ 728   ● 729   ○ 6561   ○ 81

Question 2   Evaluate 4^{-1}.

● $\frac{1}{4}$ ○ $\frac{1}{5}$ ○ $\sqrt{4}$ ○ -4 ○ -5

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

○ -3 ○ $\frac{1}{3}$ ○ 9 ○ $\pm\sqrt{3}$ ● $\sqrt{3}$

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

● 4^5 ○ $\frac{1}{4^5}$ ○ $\left(4^5\right)^{-1}$ ○ $\sqrt[5]{4}$ ● $\left(\frac{1}{4^5}\right)^{-1}$

○ *None of these answers are correct.*

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

○ 2^{80} ○ 2^{19} ○ 2^1 ● 2^{18} ○ 2^{81}

Question 6   Solve the equation $\log_x 125 = 3$.

○ 3   ● 5   ○ 4   ○ 8   ○ 15

Question 7   Solve the equation $\log_7 x = -2$.

○ 7^{-1} ○ 6^{-2} ○ 7^{-3} ○ 6^{-1} ● 7^{-2}

Question 8   Solve the equation $\log_3(2-x) = 2\log_9(x+2)$.

○ 2   ○ -1 ● 0   ○ 1   ○ -2

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

Question 1   Evaluate 8^3.

$\bigcirc$ 511 $\bigcirc$ 4096 $\bigcirc$ 64   ● 512 $\bigcirc$ 513

Question 2   Evaluate 2^{-1}.

$\bigcirc$ $\frac{1}{3}$ $\bigcirc$ -3 $\bigcirc$ -2 ● $\frac{1}{2}$ $\bigcirc$ $\sqrt{2}$

Question 3   Evaluate $6^{\frac{1}{2}}$.

$\bigcirc$ -6 ● $\sqrt{6}$ $\bigcirc$ $\frac{1}{6}$ $\bigcirc$ 36 $\bigcirc$ $\pm\sqrt{6}$

Question 4 ♣   Evaluate $\left(\frac{1}{6}\right)^{-4}$.

● $\left(\frac{1}{6^4}\right)^{-1}$ $\bigcirc$ $\left(6^4\right)^{-1}$ ● 6^4 $\bigcirc$ $\sqrt[4]{6}$ $\bigcirc$ $\frac{1}{6^4}$
$\bigcirc$ *None of these answers are correct.*

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

$\bigcirc$ 2^{40} $\bigcirc$ 2^{39} $\bigcirc$ 2^{14} $\bigcirc$ 2^4 ● 2^{13}

Question 6   Solve the equation $\log_x 16 = 2$.

● 4 $\bigcirc$ 6 $\bigcirc$ 2 $\bigcirc$ 8 $\bigcirc$ 3

Question 7   Solve the equation $\log_7 x = 0$.

$\bigcirc$ 7^1 $\bigcirc$ 7^{-1} $\bigcirc$ 6^1 $\bigcirc$ 6^0 ● 7^0

Question 8   Solve the equation $\log_4(9 - x) = 3\log_{64}(x + 3)$.

$\bigcirc$ 6 $\bigcirc$ 5 $\bigcirc$ 2   ● 3 $\bigcirc$ 4

Calculus ex01   **10, Apr, 2019**

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

Question 1   Evaluate 9^3.

● 729 $\bigcirc$ 6561 $\bigcirc$ 81 $\bigcirc$ 730 $\bigcirc$ 728

Question 2   Evaluate 5^{-1}.

$\bigcirc$ −6 $\bigcirc$ $\sqrt{5}$ ● $\frac{1}{5}$ $\bigcirc$ $\frac{1}{6}$ $\bigcirc$ −5

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

● $\sqrt{3}$ $\bigcirc$ $\frac{1}{3}$ $\bigcirc$ $\pm\sqrt{3}$ $\bigcirc$ 9 $\bigcirc$ −3

Question 4 ♣   Evaluate $\left(\frac{1}{8}\right)^{-3}$.

$\bigcirc$ $\frac{1}{8^3}$ $\bigcirc$ $\left(8^3\right)^{-1}$ ● 8^3 ● $\left(\frac{1}{8^3}\right)^{-1}$ $\bigcirc$ $\sqrt[3]{8}$
$\bigcirc$ *None of these answers are correct.*

Question 5   Evaluate $2^9 \times 2^6$.

● 2^{15} $\bigcirc$ 2^{16} $\bigcirc$ 2^4 $\bigcirc$ 2^{54} $\bigcirc$ 2^{53}

Question 6   Solve the equation $\log_x 125 = 3$.

$\bigcirc$ 4 $\bigcirc$ 15 $\bigcirc$ 8   ● 5 $\bigcirc$ 3

Question 7   Solve the equation $\log_5 x = 2$.

$\bigcirc$ 4^2 $\bigcirc$ 5^1 ● 5^2 $\bigcirc$ 4^3 $\bigcirc$ 5^3

Question 8   Solve the equation $\log_5(5 - x) = 4\log_{625}(x + 2)$.

● 1.5 $\bigcirc$ −1.5 $\bigcirc$ −0.5 $\bigcirc$ 2.5 $\bigcirc$ 0.5

Calculus ex01   **10, Apr, 2019**

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○3 ○3 ○3 ○3 ○3 ○3 ○3 ○3
○4 ○4 ○4 ○4 ○4 ○4 ○4 ○4   ⟵ Please encode your student number, and
○5 ○5 ○5 ○5 ○5 ○5 ○5 ○5   write your first and last names below.
○6 ○6 ○6 ○6 ○6 ○6 ○6 ○6
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Questions with a ♣ may have zero, one or more right answers.

Question 1   Evaluate 5^4.

○ 125   ○ 624   ○ 626   ○ 3125   ● 625

Question 2   Evaluate 8^{-1}.

○ -8 ● $\frac{1}{8}$ ○ $\frac{1}{9}$ ○ -9 ○ $\sqrt{8}$

Question 3   Evaluate $7^{\frac{1}{2}}$.

● $\sqrt{7}$ ○ $\frac{1}{7}$ ○ $\pm\sqrt{7}$ ○ -7 ○ 49

Question 4 ♣   Evaluate $\left(\frac{1}{8}\right)^{-4}$.

○ $\sqrt[4]{8}$ ● $\left(\frac{1}{8^4}\right)^{-1}$ ○ $\left(8^4\right)^{-1}$ ● 8^4 ○ $\frac{1}{8^4}$
        ○ *None of these answers are correct.*

Question 5   Evaluate $2^8 \times 2^9$.

○ 2^{18} ○ 2^{72} ○ 2^{71} ○ 2^2 ● 2^{17}

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

○ 2   ○ 8   ○ 12   ● 6   ○ 3

Question 7   Solve the equation $\log_6 x = 0$.

○ 6^1 ○ 5^0 ○ 5^1 ○ 6^{-1} ● 6^0

Question 8   Solve the equation $\log_2(2 - x) = 4\log_{16}(x + 1)$.

○ -2.5 ○ 1.5 ○ -1.5 ● 0.5 ○ -0.5