

PRINTABLE VERSION

Quiz 24

Question 1

Solve for x :

$$\log_4(-10x + 9) = \log_4(19)$$

- a) $x = \frac{10}{19}$
- b) $x = -\frac{14}{5}$
- c) $x = -1$
- d) $x = \frac{29}{9}$
- e) $x = 1$
- f) None of the above

Question 2

Solve for x :

$$\log_{343}x = \frac{1}{3}$$

- a) $x = \frac{1}{7}$
- b) $x = 3$
- c) $x = \sqrt[3]{7}$
- d) $x = 2187$
- e) $x = 7$
- f) None of the above

Question 3

Solve:

$$\log_2(16 - x) = 2$$

- a) $x = 0$
- b) $x = 2$
- c) $x = 12$
- d) $x = -12$
- e) $x = 20$
- f) None of the above

Question 4

Solve for x :

$$\log_4(x) + \log_4(x + 2) = \log_4(8)$$

- a) $x = 2$
- b) $x = -4$
- c) $x = -4, x = 2$
- d) $x = 3$
- e) $x = 4, x = -2$
- f) None of the above

Question 5

Solve for x :

$$\ln(x + 2) + \ln(x + 5) = \ln(4)$$

- a) $x = -1$
- b) $x = 1$
- c) $x = 1, x = 6$
- d) $x = -1, x = -6$
- e) $x = -6$
- f) None of the above

Question 6

Solve for x :

$$\log_9(x + 6) + \log_9(x + 4) = \frac{1}{2}$$

- a) $x = 3$
- b) $x = -3$
- c) $x = -7$
- d) $x = -3, x = -7$
- e) $x = 3, x = 7$
- f) None of the above

Question 7

Solve for x :

$$\log_2(-3x + 8) - \log_2(x + 7) = 0$$

- a) $x = \frac{1}{4}$
- b) $x = \frac{1}{3}$
- c) $x = \frac{1}{2}$
- d) $x = \frac{15}{4}$
- e) $x = \frac{15}{2}$
- f) None of the above

Question 8

Solve for x :

$$5\log_4(-3x + 3) - 2 = 8$$

- a) $x = \frac{47}{48}$

b) x = - $\frac{49}{48}$

c) x = - $\frac{19}{3}$

d) x = - $\frac{13}{3}$

e) x = $\frac{19}{3}$

f) None of the above

Question 9

Solve for x:

$$\log_5(x + 9) - \log_5(x - 2) = \log_5(9)$$

a) x = 3

b) x = $\frac{27}{10}$

c) x = - $\frac{27}{8}$

d) x = $\frac{27}{8}$

e) x = $\frac{8}{27}$

f) None of the above

Question 10

Solve for x:

$$\log_4(x + 4) - \log_4(x + 1) = 2$$

a) x = - $\frac{12}{17}$

b) x = $\frac{4}{5}$

c) x = - $\frac{5}{4}$

d) $x = \frac{20}{17}$

e) $x = -\frac{4}{5}$

f) None of the above