PRINTABLE VERSION

Quiz 1

Question 1

Solve for x: $7 = 8 - 8x$

a) ○ $\dfrac{1}{4}$

b) ○ $-\dfrac{1}{8}$

c) ○ $-\dfrac{15}{8}$

d) ○ $\dfrac{15}{8}$

e) ○ $\dfrac{1}{8}$

f) ○ None of the above.

Question 2

Give the distance from the point $(-3, 1)$ to the point $(-5, 3)$.

a) ○ $2\sqrt{2}$

b) ○ $2\sqrt{17}$

c) ○ $2\sqrt{5}$

d) ○ 3

e) ○ $4\sqrt{5}$

f) ○ None of the above.

Question 3

Find the slope of the line: $2x + 5y + 3 = 0$

a) ○ $-\dfrac{3}{5}$

b) $\bigcirc$ $\dfrac{2}{5}$

c) $\bigcirc$ $-\dfrac{2}{5}$

d) $\bigcirc$ $\dfrac{5}{2}$

e) $\bigcirc$ $-\dfrac{5}{2}$

f) $\bigcirc$ None of the above.

Question 4

What is the slope of the line through the points $(5, 3)$ and $(-4, -9)$?

a) $\bigcirc$ $\dfrac{3}{4}$

b) $\bigcirc$ $\dfrac{2}{3}$

c) $\bigcirc$ $\dfrac{4}{3}$

d) $\bigcirc$ $-\dfrac{1}{6}$

e) $\bigcirc$ $\dfrac{3}{2}$

f) $\bigcirc$ None of the above.

Question 5

Find the coordinates of the x-intercept for $-7x - 10y + 6 = 0$.

a) $\bigcirc$ $\left(-\dfrac{3}{5}, 0\right)$

b) $\bigcirc$ $\left(\dfrac{3}{5}, 0\right)$

c) $\bigcirc$ $\left(\dfrac{6}{7}, 0\right)$

d) ○ $(0, 0)$

e) ○ $\left(-\dfrac{6}{7}, 0\right)$

f) ○ None of the above.

Question 6

Find the coordinates of the y-intercept for $9x - 3y + 9 = 0$.

a) ○ $(0, 3)$

b) ○ $(0, -3)$

c) ○ $(0, 1)$

d) ○ $(0, -1)$

e) ○ $\left(0, -\dfrac{1}{3}\right)$

f) ○ None of the above.

Question 7

Which of the following points is on the graph of $-5x + 6y + 30 = 0$?

a) ○ $(-6, -10)$

b) ○ $(-6, -11)$

c) ○ $(-5, -10)$

d) ○ $(-6, -9)$

e) ○ $(-7, -10)$

f) ○ None of the above.

Question 8

Simplify:

$$\frac{1}{7x} - \frac{1}{5x}$$

a) ○ $-\dfrac{2}{35\,x}$

b) ○ $\dfrac{12}{35\,x}$

c) ○ $-\dfrac{2}{7\,x}$

d) ○ $-\dfrac{2}{5\,x}$

e) ○ $\dfrac{2}{35\,x}$

f) ○ None of the above.

Question 9

Find the midpoint of the line seqment joining $(-8, 4)$ and $(-1, -1)$.

a) ○ $\left(-4, \dfrac{3}{2}\right)$

b) ○ $\left(-\dfrac{9}{2}, 2\right)$

c) ○ $\left(\dfrac{7}{2}, -\dfrac{5}{2}\right)$

d) ○ $\left(-\dfrac{7}{2}, \dfrac{5}{2}\right)$

e) ○ $\left(-\dfrac{9}{2}, \dfrac{3}{2}\right)$

f) ○ None of the above.

Question 10

Determine if the given lines are parallel, perpendicular or neither.

$$5x + 5y = 12$$
$$-15x - 15y = 14$$

a) ○ Perpendicular

b) ◯ Parallel

c) ◯ Neither