

Solve equations using $f(x) =$

Maths

Mrs Dennett



Solve equations using $f(x) =$

1. $f(x) = 3x$

Solve the following equations

a) $f(x) = 36$

b) $f(x) = 162$

c) $f(x) = -72$

d) $f(x) = 10.5$

e) $f(x) = 0.102$

2. $f(x) = 5x - 3$

Solve the following equations

a) $f(x) = 32$

b) $f(x) = 97$

c) $f(x) = -68$

d) $f(x) = 44.5$

e) $f(x) = 10$



Solve equations using $f(x) =$

3. $f(x) = 2x^2$

Solve the following equations

a) $f(x) = 32$

b) $f(x) = 72$

c) $f(x) = 24.5$

4. $f(x) = \frac{8x+3}{4}$

Solve the following equations

a) $f(x) = 9$

b) $f(x) = 6.5$

5. Given $f(x) = 5x - 4$ and $g(x) = 8 - 3x$, solve the equation $f(x) = g(x)$.



Answers



Solve equations using $f(x) =$

1. $f(x) = 3x$

Solve the following equations.

a) $f(x) = 36$ $x = 12$

b) $f(x) = 162$ $x = 54$

c) $f(x) = -72$ $x = -24$

d) $f(x) = 10.5$ $x = 3.5$

e) $f(x) = 0.102$ $x = 0.034$

2. $f(x) = 5x - 3$

Solve the following equations.

a) $f(x) = 32$ $x = 7$

b) $f(x) = 97$ $x = 20$

c) $f(x) = -68$ $x = -13$

d) $f(x) = 44.5$ $x = 9.5$

e) $f(x) = 10$ $x = 2.6$



Solve equations using $f(x) =$

3. $f(x) = 2x^2$

Solve the following equations.

a) $f(x) = 32$ $x = 4$ or -4

b) $f(x) = 72$ $x = 6$ or -6

c) $f(x) = 24.5$ $x = 3.5$ or -3.5

4. $f(x) = \frac{8x+3}{4}$

Solve the following equations.

a) $f(x) = 10$ $x = 4.625$

b) $f(x) = 6.5$ $x = 2.875$

5. Given $f(x) = 5x - 4$ and $g(x) = 8 - 3x$,
solve the equation $f(x) = g(x)$.

$x = 1.5$

