

Sum and Product of the Roots

L2S1

Find the sum and product of the roots from each equation.

$$1) x + 2 = -\frac{5}{3x}$$

$$2) \frac{10y + 6}{4} = y^2$$

Sum of the roots = _____

Sum of the roots = _____

Product of the roots = _____

Product of the roots = _____

$$3) 4t(t - 4) = 0$$

Sum of the roots = _____

the roots = _____

Product of the roots = _____

the roots = _____

$$5) h(\sqrt{3}h + \sqrt{5}) = -\sqrt{6}$$

Sum of the roots = _____

the roots = _____

Product of the roots = _____

the roots = _____

$$7) -\frac{12g^2}{3g - 1} = 3$$

Sum of the roots = _____

Sum of the roots = _____

Product of the roots = _____

Product of the roots = _____

$$8) v(v + 5) = 5(v - 5)$$

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$$\frac{1}{u}$$

Answer key**Sum and Product of the Roots**

L2S1

Find the sum and product of the roots from each equation.

1) $x + 2 = -\frac{5}{3x}$

2) $\frac{10y + 6}{4} = y^2$

Sum of the roots = $\underline{\underline{-2}}$

Sum of the roots = $\underline{\underline{\frac{5}{2}}}$

Product of the roots = $\underline{\underline{\frac{5}{3}}}$

Product of the roots = $\underline{\underline{-\frac{3}{2}}}$

3) $4t(t - 4) = 0$

Sum of the roots =

Product of the roots =

the roots = $\underline{\underline{-\frac{1}{4}}}$

the roots = $\underline{\underline{-\frac{7}{8}}}$

5) $h(\sqrt{3}h + \sqrt{5}) = -\sqrt{6}$

Sum of the roots =

Product of the roots =

$\frac{1}{u}$

the roots = $\underline{\underline{-\frac{1}{5}}}$

the roots = $\underline{\underline{\frac{16}{23}}}$

7) $-\frac{12g^2}{3g - 1} = 3$

8) $v(v + 5) = 5(v - 5)$

Sum of the roots = $\underline{\underline{-\frac{3}{4}}}$

Sum of the roots = $\underline{\underline{0}}$

Product of the roots = $\underline{\underline{-\frac{1}{4}}}$

Product of the roots = $\underline{\underline{25}}$

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