

Solve and list the restrictions

$$8 = \frac{9}{4x + 5}$$

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$$(4x+5)8 = \frac{9}{4x+5} (4x+5)$$

$$8(4x+5) = 9$$

$$32x + 40 = 9$$

~~-40~~ ~~-40~~

$$\frac{32x}{32} = \frac{-31}{32}$$

$$x = \frac{-31}{32}$$

Restrictions

$$4x+5=0$$

~~-5~~ ~~-5~~

$$4x = -5$$

~~4~~ ~~4~~

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