

February 12, 2016

$$\frac{x}{5} \left[\frac{2}{3} \right] = \frac{1}{2}$$

$+ \frac{1}{3} \quad + \frac{1}{3} \quad A.D.$

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

$$= \frac{3+4}{6}$$

$$\frac{x}{5} = \frac{7}{6} \quad \text{m.d.}$$

$$x = \frac{35}{6}$$

$$\frac{35}{6} \cdot \frac{1}{5} = \frac{7}{6}$$

$$\frac{7}{6} - \frac{2}{3} = \frac{1}{2}$$

$$\frac{7}{6} - \frac{4}{6} = \frac{3}{6}$$

$$\frac{3}{6} = \frac{1}{2}$$

Feb 12-9:51 AM

Distribution ** key: multiplication over addition*

Left Right

$$a \cdot (b+c) = ab + ac$$

Multiplication *Sum*

$$3(x-4) = 3x - 3(4)$$

$$= 3x - 12$$

$$12x - 2 = 2(6x - 1)$$

$$[2 \cdot 2 \cdot 3] x - 2 =$$

Feb 12-10:24 AM

$$-x(y+3) = (-x)(y) + (-x)(3)$$

$$= -xy + (-3x)$$

$$= -xy - 3x$$

$$-x - 3 = (-1)(x+3)$$

$$= -(x+3)$$

Feb 12-10:33 AM

Left

$$-4(x-5) + 2 = 3(x+9)$$

Simplify

$$-4x + 20 + 2 = 3x + 27$$

$$+4x - 27 \quad +4x - 27$$

$$20 + 2 - 27 = 7x$$

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

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

Feb 12-10:36 AM