

August 30, 2017

$$\begin{cases} 7(4x - 5y) = -14 \\ 5(3x + 2y) = 5 \end{cases}$$

$$\begin{cases} 28x - 35y = -14 \\ 15x + 35y = 25 \end{cases}$$

$$\frac{43x}{43} \quad 0 = \frac{-73}{43}$$

$$\boxed{x = -\frac{73}{43}}$$

$$\frac{4}{7}\left(-\frac{73}{43}\right) - 5y = -14$$

$$-\frac{292}{43} - 5y = -14 + \frac{292}{43}$$

$$+ \frac{292}{43}$$

$$43(-5y = -14 + \frac{292}{43})$$

$$-215y = -602 + 292$$

$$\frac{-215y}{-215} = \frac{-310}{-215}$$

$$y = \frac{310}{215} = \frac{62}{43}$$

$$\left(-\frac{73}{43}, \frac{62}{43}\right)$$

Aug 30-8:01 AM

p. 8 # 89) $PV = m \boxed{R} T$
solve for R

$$\frac{PV}{mT} = \frac{mR}{mT}$$

$$\boxed{\frac{PV}{mT} = R}$$

Aug 30-8:24 AM