

$$\textcircled{1} \quad 2\{[4(x-1)+3] - [2(2x-1)+3]\}$$

$$2([4x-4+3] - [4x-2+3])$$

$$(4x-1 - (4x+1))$$

$$2(4x-1-4x-1) \rightarrow 2(-2) = \boxed{-4}$$

unauthorized

$$\textcircled{2} \quad \frac{-\frac{22}{9}}{-\frac{7}{5}} \quad -\frac{22}{9} \cdot \left(-\frac{5}{7}\right) \rightarrow +\frac{110}{63} \text{ or } \boxed{\frac{47}{63}}$$

$$\textcircled{3} \quad -9x + 6(-3x-7) = -63 - 6x$$

$$-9x + -18x - 42 = -63 - 6x$$

$$-27x - 42 = -63 - 6x$$

$$+27x \quad +63 \quad - \quad +63 \quad +27x$$

$$\hline +21 = 21x$$

$$\boxed{1 = x}$$

$$-9(1) + 6(-3(1)-7) = -63 - 6(1)$$

$$= -63 - 6$$

$$-9 + 6(-3-7)$$

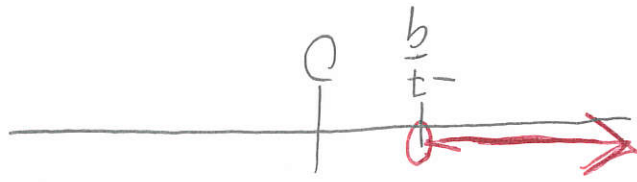
$$= -69$$

$$-9 + 6(-10)$$

$$-9 + -60$$

$$+69$$

$$= -69 \checkmark$$



$$\frac{b}{t-} > x \quad x < \frac{b}{t-} \quad \frac{b}{x} < t-$$

$$\begin{aligned} & \frac{b}{x} + t- & & x + t- \\ & \frac{b}{x} - t- & = & t- - x \end{aligned}$$

$$b - xt - t- = t- - x - xt -$$

$$(b + xt -) - t- < (t- + x) - xt -$$

~~$$(b + xt -) - t- < (t- + x) - xt -$$~~

Find side surface area of a cylinder.



$2\pi r$

$$h = \frac{2\pi r}{S - 2\pi r^2}$$

$$S - 2\pi r^2 = 2\pi r h$$

$$S = 2\pi r h + 2\pi r^2$$

(3)

$$\boxed{7.96 \text{ meters}} \approx \frac{30}{378} \times 100$$

$$\begin{aligned} \text{Old} &= 378 \\ \text{New} &= 408 \\ \frac{408 - 378}{408} \times 100 & \end{aligned}$$

(4)

$$(7) \frac{2(15-3^2)}{4 \cdot 7 \cdot 11} \rightarrow \frac{2(15-9)}{4 \cdot 7 \cdot 11} \rightarrow \frac{2(6)}{308}$$

$$\begin{array}{r} 28 \\ +11 \\ \hline 28 \\ 280 \\ \hline 308 \end{array}$$

$$\frac{12}{308} = \boxed{\frac{3}{77}}$$

(8)

$$\frac{1}{5} \div \frac{3}{8} \left(\frac{3}{8} - \frac{1}{2} \right)$$

$$\frac{1}{5} \div \frac{3}{5} \left(\frac{3}{8} - \frac{1}{2} \right)$$

$$\frac{1}{8} \cdot \frac{8}{5} \left(-\frac{1}{8} \right) = \boxed{\frac{1}{24}}$$

$$\frac{1}{5} \div \frac{3}{8} \left(\frac{3}{8} - \frac{4}{8} \right)$$

$$\frac{1}{5} \div \frac{3}{8} \left(-\frac{1}{8} \right)$$

$$\frac{1}{5} \cdot \frac{8}{3} = \frac{8}{15}$$

$$\frac{1}{5} \left(\frac{-64}{3} \right) =$$

$$\boxed{\frac{-64}{15}}$$

$$\text{or } 1 - \frac{4}{15}$$

Best answer I think

(9)

Opp says multiply $-4(-6)$
This person subtracted $27-4$ first.

(10)

$$\text{Diameter} = \frac{11}{3}$$

$$\pi \left(\frac{11}{6} \right)^2 \rightarrow \frac{\pi (121)}{36} \rightarrow \frac{11(121)}{7(18)}$$

$$\text{radius } \frac{11}{3} \div 2 \rightarrow \frac{11}{3} \cdot \frac{1}{2} \rightarrow \frac{11}{6}$$

$$\boxed{\frac{1331}{126}}$$

