

I vs. me

8-26-19 1st Try

Solving for variable.

$$\textcircled{1} \quad 2(3x-1) - (x-4) = 6x-10$$

$$6x - 2 - x + 4 = 6x - 10$$

$$\begin{array}{r} 5x + 2 \\ -5x \end{array} = \begin{array}{r} 6x - 10 \\ -5x \end{array}$$

$$\begin{array}{r} 2 = x - 10 \\ +10 \qquad \qquad +10 \\ \hline 12 = x \end{array}$$

$$\textcircled{2} \quad (3n^2)^3$$

$$3n^2 \cdot 3n^2 \cdot 3n^2$$

$$3nn \quad 3nn \quad 3nn$$

$$27n^6$$

$$\textcircled{3} \quad 5(n^2y + ny) - 6n^2y - ny$$

$$\underline{5n^2y + 5ny} - \underline{6n^2y} - \underline{ny}$$

$$-n^2y + 4ny$$

$$\textcircled{4} \quad (n+7)^2$$
$$(n+7)(n+7)$$

$$n^2 + 7n + 7n + 49$$

$$n^2 + 14n + 49$$

$$\textcircled{5} (4n^2)^2 \cdot n + 3n \cdot 2n \cdot 2n \cdot n^2$$

$$4n^2 \cdot 4n^2 \cdot n + 3n \cdot 2n \cdot 2n \cdot n$$

$$16n^5 + 12n^5$$

$$28n^5$$

$$\textcircled{6} \sqrt{-80}$$

$$80$$

$$\textcircled{2}$$

$$40$$

$$\textcircled{2}$$

$$20$$

$$4$$

$$\textcircled{2}$$

$$\textcircled{2}$$

$$2 \cdot 2 \cdot i \sqrt{-1 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5}$$

$$4i\sqrt{5}$$

$$\textcircled{7} \frac{c^{-2} w^3 h^{-1}}{c w^{-2} h^{-4}}$$

$$\frac{w^2 w^3 h^4}{c c^2 h}$$

$$\frac{w w w w w h h h h}{c c c h} = \frac{w^5 h^3}{c^3}$$

$$\textcircled{8} (5a^{-2}b^3)^{-2}$$

$$\left(\frac{5b^3}{a^2}\right)^{-1 \cdot 2}$$

$$\left(\frac{a^2}{5b^3}\right)^2$$

$$\frac{a^2}{5b^3} \cdot \frac{a^2}{5b^3} = \frac{a^4}{25b^6}$$

$$\textcircled{9} \left(\frac{1}{5}\right)^{-2}$$

$$\left(\frac{1}{5}\right)^{-1 \cdot 2}$$

$$5^2$$

$$25$$

8-26-19

I vs. me

$$\textcircled{1} \quad 6(2n-1) - (3n+1) = 2n-5$$

$$12n-6-3n-1=2n-5$$

$$\frac{9n-7}{-2n} = \frac{2n-5}{-2n}$$

$$\frac{7n(-7)}{+7} = \frac{-5}{+7}$$

$$\frac{7n}{7} = \frac{2}{7}$$

$$n = \frac{2}{7}$$

$$\textcircled{2} \quad (3n^4)^3$$

$$3n^4 \cdot 3n^4 \cdot 3n^4$$

$$3n^4n^4n^4 \quad 3n^4n^4n^4 \quad 3n^4n^4n^4$$

$$27n^{12}$$

$$\textcircled{3} \quad (n+5)^2$$

$$(n+5)(n+5)$$

$$n^2+5n+5n+25$$

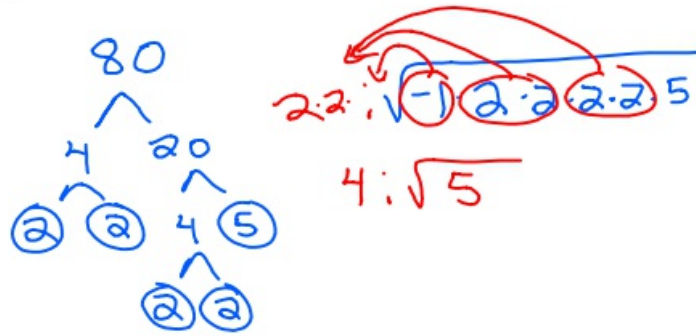
$$n^2+10n+25$$

$$\textcircled{4} \quad 2(n^2y+ny) - 3(ny-n^2y)$$

$$\underline{2n^2y} + \underline{2ny} \quad \underline{-3ny} + \underline{3n^2y}$$

$$5n^2y - ny$$

⑤ Simplify $\sqrt{-80}$



⑥ $\frac{4a^{-2}b^2c^{-1}}{6ab^4c^{-3}} =$

$$\frac{4b^2c^3}{6ab^4a^2c}$$

$$\frac{\cancel{4}^2 b b c c c}{\cancel{6}_3 a b b b b a c}$$

$$\frac{2c^2}{3a^1b^2}$$

⑦ $(2a^{-2}b)^{-2}$

$$\left(\frac{2b}{a^2}\right)^{-1 \cdot 2}$$

$$\left(\frac{a^2}{2b}\right)^2 = \frac{a^2}{2b} \cdot \frac{a^2}{2b} = \frac{a^4}{4b^2}$$

$$\textcircled{8} \left(\frac{1}{3}\right)^{-2}$$

$$\left(\frac{1}{3}\right)^{-1 \cdot 2}$$

$$3^2$$

$$9$$

8-26-19 4th Tr'y

I vs. me

$$\textcircled{1} 2(3n-1) - (2n+1) = n-5$$

$$6n-2 - 2n-1 = n-5$$

$$\begin{array}{r} 4n-3 = n-5 \\ -n \quad \quad \quad -n \\ \hline \end{array}$$

$$\begin{array}{r} 3n-3 = -5 \\ +3 \quad +3 \\ \hline \end{array}$$

$$\frac{3n}{3} = \frac{-2}{3}$$

$$n = -\frac{2}{3}$$

$$\textcircled{2} (n+3)^2$$

$$(n+3)(n+3)$$

$$n^2 + 3n + 3n + 9$$

$$n^2 + 6n + 9$$

$$\textcircled{3} (2n^2y^3)^3$$

$$2n^2y^3 \cdot 2n^2y^3 \cdot 2n^2y^3$$

$$2n^2y^3 \cdot 2n^2y^3 \cdot 2n^2y^3$$

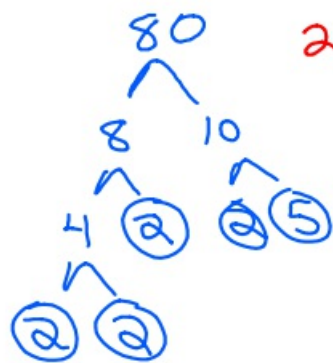
$$8n^6y^9$$

$$\textcircled{4} 2(3ny + 5n^2y) - (3ny - 2n^2y)$$

$$\underline{6ny} + \underline{10n^2y} - \underline{3ny} + \underline{2n^2y}$$

$$3ny + 12n^2y$$

$$\textcircled{5} \sqrt{-80}$$



$$2 \cdot 2 \cdot i \sqrt{(-1) \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5}$$

$$4i\sqrt{5}$$

$$\textcircled{6} \frac{4a^{-2}b^3}{6a^{-4}b}$$

$$\frac{4a^1b^3}{6a^2b}$$

$$\frac{\cancel{4}^2 \cancel{a}^2 \cancel{a}^2 \cancel{b}^3 \cancel{b}^2}{\cancel{6}^3 \cancel{a}^2 \cancel{b}} = \frac{2a^2b^2}{3}$$

$$\textcircled{7} (-5a^{-3}b^3)^{-2}$$

$$\left(\frac{-5b^3}{a^3} \right)^{-1 \cdot 2}$$

$$\left(\frac{a^3}{-5b^3} \right)^2$$

$$\frac{a^3}{-5b^3} \cdot \frac{a^3}{-5b^3} = \frac{a^6}{25b^6}$$

$$\textcircled{8} \left(\frac{1}{5}\right)^{-2}$$

$$\boxed{\left(\frac{1}{5}\right)^{-1 \cdot 2}}$$

$$5^2$$

$$25$$