

Sept. 8, 2017

Warmup

$$\left(\frac{3}{4} + 2\frac{1}{2}\right)^2 - \left(\frac{1}{3} \div \frac{2}{3}\right)^3$$

$$= \left(\frac{3}{4} + \frac{5}{2}\right)^2 - \left(\frac{1}{3} \cdot \frac{3}{2}\right)^3$$

$$= \left(\frac{6}{8} + \frac{20}{8}\right)^2 - \left(\frac{3}{6}\right)^3$$

$$= \left( \frac{26}{8} \right)^2 - \left( \frac{1}{2} \right)^3$$

$$= \left( \frac{13}{4} \right)^2 - \left( \frac{1}{2} \right)^3$$

$$= \frac{169}{16} - \frac{1}{8}$$

$$= \frac{169}{16} - \frac{2}{16}$$

$$= \frac{167}{16}$$

$$2 - (-3) + (-4) - (-5)$$

$$2 + 3 - 4 + 5$$

$$5 - 4 + 5$$

$$= \boxed{6}$$

$$\frac{22}{24} = \frac{9}{24}$$

$$\frac{22}{\cancel{24}} \cdot \frac{\cancel{24}}{9} = \frac{22}{9}$$

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$$3 \div 5 = \frac{3}{5}$$

$$2 \div 32 = \frac{2}{32}$$