

Simplify

p.253

$$\#4a) \left(-\frac{1}{4}\right)\left(\frac{20}{1}\right) + \left(\frac{1}{5}\right)\left(\frac{-30}{1}\right) - \left(\frac{1}{6}\right)\left(\frac{42}{1}\right)$$

$$= \left(-\frac{20}{4}\right) + \left(\frac{-30}{5}\right) - \left(\frac{42}{6}\right)$$

$$= (-5) + (-6) - 7$$

$$= -11 - 7 = -18$$

p. 253 #5c)

Evaluate when $m = \frac{2}{3}$

$$\left(-\frac{3}{4}\right)\left(m - \frac{1}{2}\right)$$

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

$$= \left(-\frac{3}{4}\right)\left(\frac{4}{6} - \frac{3}{6}\right) = \left(-\frac{3}{4}\right)\left(\frac{1}{6}\right)$$

$$= \frac{-3 \div 3}{24 \div 3} = \left(\frac{-1}{8}\right)$$

5g) Evaluate $5 + 3x$
when $x = -5$.

$$= 5 + 3(-5)$$

$$= 5 + (-15)$$

$$= 5 - 15$$

$$= -10$$

p. 253 #7a) Solve for the remaining variable

Solve for w if $A = lw$

$$A = 100\text{m}^2$$

$$l = 20\text{m}$$

$$A = lw$$

$$\frac{100}{20} = \frac{20w}{20} \text{ reduce}$$

$$5 = w$$

\therefore the width
is 5m.
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